

# **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



ch  
Sedimentation Bulletin Number 5  
August 1953

SUMMARY OF  
RESERVOIR SEDIMENTATION  
SURVEYS  
FOR  
THE UNITED STATES  
THROUGH 1950

Compiled under the auspices of  
Subcommittee on Sedimentation  
Federal Inter-Agency  
River Basin Committee

Prepared under the supervision  
of the Corps of Engineers  
Department of the Army

FOR ADMINISTRATIVE USE ONLY



SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS

MADE IN  
THE UNITED STATES  
THROUGH 1950

---

Prepared and reproduced by  
THE CORPS OF ENGINEERS, DEPARTMENT OF ARMY  
in cooperation with the following agencies represented on the  
Subcommittee on Sedimentation  
Federal Inter-Agency River Basin Committee

DEPARTMENT OF AGRICULTURE  
✓Forest Service  
Soil Conservation Service

DEPARTMENT OF COMMERCE  
✓Coast and Geodetic Survey

DEPARTMENT OF THE INTERIOR  
Bureau of Reclamation  
✓Geological Survey

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE  
Public Health Service

✓FEDERAL POWER COMMISSION

TENNESSEE VALLEY AUTHORITY

---

Copies are available for limited distribution at the Washington office of each of the agencies listed above.

JULY 1953

## CONTENTS

	<u>Page</u>
Foreword - - - - -	1
Acknowledgements - - - - -	3
Explanation of the Summary Table - - - - -	3
Form for Reporting Reservoir Sedimentation - - - -	5
Tabulation - Summary of Reservoir Sedimentation Surveys made in the United States - - - - -	6
Sample Form of Reservoir Sedimentation Data- - - -	29
Map - Index of River Basin Maps- - - - -	31

SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS

MADE IN  
THE UNITED STATES  
THROUGH 1950

NOTE

This bulletin is the fifth of a series issued by the agencies represented on the Subcommittee on Sedimentation. The series is intended as a medium for dissemination of the results of specific work projects of the subcommittee, and for general information on work being undertaken in the sedimentation field by the agencies on the subcommittee.

Copies of these bulletins may be obtained, for administrative use only, from agencies listed as subcommittee members. Bulletins previously issued by the Subcommittee on Sedimentation are listed as follows:

Bulletin No. 1 - - - INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-  
LOAD DATA IN THE UNITED STATES

April 1949

Bulletin No. 2 - - - ANNOTATED BIBLIOGRAPHY ON SEDIMENTATION

February 1950

Bulletin No. 3 - - - PRELIMINARY CHECK LIST OF RESERVOIR SEDIMENTATION  
SURVEYS MADE IN THE UNITED STATES TO APRIL 1, 1950  
(Superseded by Bulletin No. 5)

May 1950

Bulletin No. 4 - - - INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-  
LOAD DATA IN THE UNITED STATES SUPPLEMENT -  
1946 to 1950

April 1952





SUMMARY OF  
RESERVOIR SEDIMENTATION SURVEYS  
MADE IN THE UNITED STATES  
THROUGH 1950

FOREWORD

This bulletin, together with the appendix, is a presentation of the results of all known, reliable, sedimentation surveys made in the United States through 1950. The purpose of the bulletin is to make readily available the more pertinent data on reservoir sedimentation which would otherwise remain in the archives of the agencies making the surveys. Included in the bulletin is a summary table listing the names of the reservoirs on which sedimentation surveys have been made, together with information relative to location, drainage area, rate of sediment accumulation and related information of general interest. Information has been assembled on 528 reservoirs in the country. These reservoirs are located in all but 12 states, the exceptions being Delaware, Florida, Louisiana, Michigan, New Jersey, North Dakota and the six New England states. In addition to the data on storage reservoirs and stock ponds some information is included on debris basins.

The appendix contains detailed information on each of the reservoir surveys listed in the summary table. The appendix is not being distributed to all recipients of this bulletin because of its bulk and because the detailed information is not of general interest. However, copies of the appendix are available for inspection in the Washington, D. C., offices and in many of the field offices of the agencies represented on the Subcommittee on Sedimentation. Copies may also be obtained on a loan basis from these agencies.

An example of the form of presentation of the detailed information contained in the appendix is given on pages 29 and 30 of this bulletin. A similar data sheet is included in the appendix for each reservoir listed in the summary table.

The basic data vary in relative accuracy. The surveys range from reconnaissance measurements of depth of deposition at a few locations in a reservoir to detailed surveys which include frequent cross sections or complete contour mapping. No classification of relative accuracy has been attempted in this bulletin.

It is anticipated that the results of new surveys or resurveys of reservoirs will be presented from time to time as supplements to this bulletin. Revised sedimentation data sheets for these reservoirs will also be distributed to recipients of the appendix so that copies of the appendix may be kept up to date.

It is hoped that the information in this bulletin and in the appendix will prove useful to many engineers in public and private practice who are interested in problems of reservoir sedimentation. It is also hoped that private engineers and engineering firms and local government agencies who have data on similar reservoir surveys will make this information available to the subcommittee for inclusion in supplements to this bulletin.

Work Group on Sedimentation in Reservoirs

R. S. Goodridge, Federal Power Commission  
L. C. Gottschalk, Soil Conservation Service  
James Smallshaw, Tennessee Valley Authority  
W. D. Romig, Bureau of Reclamation  
W. W. Reedy, Bureau of Reclamation  
Robert F. Kreiss, Corps of Engineers  
B. L. Hobbs, Chairman, Corps of Engineers

## ACKNOWLEDGEMENTS

The preparation of data sheets in the form required for the appendix has been accomplished by the efforts of personnel in many offices of Federal, State, and local agencies. The initial phase of inaugurating the data collection program and final phases of compiling data for the summary table in the bulletin, preparing typed sheets for the offset reproduction, and the cost of reproduction have been undertaken by the Washington, D. C., offices of the agencies listed on the title page. The efforts of the field offices which have been primarily responsible for the collection of data are gratefully acknowledged.

## EXPLANATION OF THE SUMMARY TABLE

Data in the summary table of the bulletin have been obtained from the reservoir sedimentation data sheets contained in the appendix. Dashes in columns of the table signify absence of data, or that the column is not applicable for the reservoir.

Reservoirs are grouped according to the 79 drainage areas into which the United States has been divided as shown in the publication, "River Basin Maps Showing Hydrologic Stations," compiled under the auspices of the Subcommittee on Hydrology, Federal Inter-Agency River Basin Committee. An index map of these drainage areas is shown on page 31 of this bulletin. In the summary table of this bulletin, the drainage areas in which the reservoirs are located are shown as subheadings. The first of the two numbers identifying a reservoir indicates the drainage area in which it is located. The second number denotes the particular reservoir in the drainage area and is based upon the order in which the data were prepared. When a revised form is prepared for a reservoir, it will be shown alphabetically, for example 70-2a, then 70-2b, etc.

Total drainage area includes the reservoir area and the area lying above all upstream dams but generally excludes non-contributing drainage areas lying within the basin boundary. Where available, the drainage area figure published by the U. S. Geological Survey in Water Supply Papers is used. The net drainage area is the net sediment-contributing area and excludes the reservoir area and the drainage areas above the upstream reservoirs which are effective sediment traps.



The length of record pertains to the period of sediment deposition prior to the date of survey. The initial date does not appear in the table but generally is that representing the initial storage of water, including all or a part of the period of diversion if the trap efficiency was appreciable in that period. In other cases the initial date represents the date of the contour or range survey made after the reservoir was in operation for some time.

The average annual runoff is that for the period shown in the column "Length of Record."

The capacity-watershed ratio (C/W) is derived from the initial total storage at the level of the crest of an ungated spillway or the top of gates (less gate-height freeboard, if any) of gated spillways. The watershed area is the entire flow-contributing drainage area. A dash is shown if upstream reservoirs which have a C/W ratio of more than 25 acre-feet per square mile control more than 25 percent of the drainage area.

The specific weight of deposited sediment is an average or weighted value for the reservoir, determined generally from samples of deposits. In view of the variations of specific weight with depth of the sample and with the location in the reservoir, the determination of a mean specific weight is generally an approximation for the reservoir. If the entry is marked by an asterisk, the specific weight is not obtained from measurements but is assumed or is calculated from field data of the size-frequency grading of the deposits and a chart relating size-frequency with specific weight.

The annual storage loss is determined from the average annual volume of sediment deposition in respect to the initial total storage. In a few cases that are noted, the loss rate applies to a lesser storage corresponding either to a reservoir elevation not exceeded during the period of record or to the limiting upper elevation of the sedimentation survey.

The rate of sediment accumulation pertains to sediment deposited in the reservoir below the full pool elevation but does not include the sediment deposited in deltas above full pool level or sediment discharged from the reservoir. The sediment concentration in parts per million by weight is computed from the measured volume and specific weight of deposits below full pool level and from the quantity of inflowing water-sediment mixture for the period. It was assumed that all of the deposited sediment was transported into the reservoir by flowing water.

FORM FOR REPORTING  
RESERVOIR SEDIMENTATION

On pages 29 and 30 of this bulletin is a completed sample of the reservoir sedimentation data sheet from the appendix. This sheet is a convenient and standard form for reporting results of surveys. An invitation is extended herewith to readers, particularly those practicing engineering individually, in engineering firms, or in local government agencies, to prepare sheets covering surveys known to them but not included in this bulletin. A blank form is inclosed as a tear sheet of this bulletin and additional forms may be obtained from the Washington offices of the agencies listed on the title page or the form may be reproduced if desired. The completed forms may be sent to any one of the agencies represented on the Subcommittee on Sedimentation for inclusion in supplements to this bulletin.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES	INITIAL CAPACITY - WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

1- ST. JOHN, MACIAS, PENOBSCOT, KENNEBEC, ANDROSCOGGIN, AND PRESUMSCOT RIVER BASINS

2- NOUSATONIC, CONNECTICUT, TNAMES, AND MERRIMACK RIVER BASINS

3- HUDSON RIVER BASIN AND ST. LAWRENCE DRAINAGE IN NEW YORK

3-1	Schoharie (Gildoa Dam)	Schoharie Cr.....	Prattsville, N. Y.	314	312.3	May 1950	23.8	---	203	60*	0.07	0.166 L/	217 L/	---
4-1	Lock Raven.....	Runpowder Falls R.	Towson, Md.....	303	299.4	Oct 1943	29	---	217	60*	0.28	0.618	808	---
4-2	Prettyboy.....	Griffin Cr.....	Nereford, Md.....	80	77.5	Oct 1943	10.5	---	754	60*	0.09	0.699	913	---
4-3	Griffin.....	Roaring Ark.....	Scranton, Pa.....	3.2	3.0	May 1941	53	---	620	---	0.04	0.237	---	---
4-4	Elmhurst.....	Codorus Cr.....	York, Pa.....	34.8	42.6	Apr 1939	27	---	108	49.1	0.03	0.034	---	---
4-5	Lake Williams.....	Stafford Meadow Brk	Scranton, Pa.....	5	4.9	May 1941	48	---	62.6	---	0.63	0.394	421	---
4-6	Williams Bridge.....							---	210	---	0.01	0.022	---	---

SUSQUEHANNA AND DELAWARE RIVER BASINS

POTOMAC, RAPPAHANNOCK, YORK, AND JAMES RIVER BASINS

5-1	Barcroft.....	Holmes Run.....	Alexandria, Va.....	14.5	14.3	Feb 1938	23.1	---	127	60*	0.20	0.257	336	---
5-2	Pedlar.....	NW Br, Anacostia R	Silver Spring, Md.	33.2	27.0	Mar 1938	7.8	---	56	60*	0.24	0.134	533	---
5-3	Burnt Hills.....	North R.....	Staunton, Va.....	25	25	Jan 1940	14	---	236	60*	3.19	7.91	10,337	---
5-4	Greenbelt Lake.....	Occoquan Cr.....	Manassas, Va.....	0.83	337	Aug 1937	7.2	---	15.4	60*	0.22	0.141	184	---
5-5	Stanton.....							---	13.4	---	1.06	0.141	---	---
5-6	Jackson.....							---	248	50*	0.08	0.020	218	---
5-7	Triadelphia Lake (Brighton Dam).....			81.4	80.1	Oct 1950	8.3	---	122	---	0.15	0.090 g/	---	---
5-8	Gordon Lake.....			64	59.6	Apr 1940	26.6	---	48.9	---	0.03	0.036	---	---
5-9	Thomas W. Koon Lake.....			60.0			8.1	---	---	---	---	---	---	---

CROWAN, ROANOKE, TAR, WELUSE, AND CAPE FEAR RIVER BASINS

6-1	Lake Apex.....	Swift Cr.....	Apex, N. C.....	4.0	4.0	Jun 1941	16	---	26.5	---	0.71	0.19	---	---
6-2	Franklinton.....	Sallie Keany Cr.	Franklinton, N. C.	1.13	1.12	May 1938	13.3	---	30.7	67	1.60 y/	0.509	743	---
6-3	Greensboro.....							---	38.7	60*	0.77	0.308	402	---
6-4	High Point.....	Reedy Fk.....	Greensboro, N. C.	74.1	62.8	Aug 1934	11.5	---	69.3	50.6	0.79	0.541	596	---
6-5	Lake Michie.....	Flat R.....	Ourham, N. C.	62.8	167.5	Jan 1935	8.75	---	75.6	---	0.71	0.494	544	---
6-6	Sanford City.....	Lick Cr.....	Chapel Hill, N. C.	3.75	30.3	Apr 1935	2.9	---	27.5	---	0.54	0.150	---	---
6-7	University Lake.....	Satterfield Cr.....	Roxboro, N. C.	7.62	7.52	Jun 1941	22.6	---	69.7	---	1.15	0.728	---	---
6-8	Roxboro City Lake.....			105.2	105.2	May 1938	10.0	---	14.1	63	0.69 5/	0.499	---	---
6-9	Burlington Municipal.....			105.2	105.2	Sep 1949	21.3	---	14.1	---	1.09	0.155	213	---
6-10	Walnut Cove.....	Oan R.....	Walnut Cove, N. C.	397	397	Apr 1932	9	---	357,000	43*	8.73	0.214	200	164

PEE OEE, SANTEE, AND EOCISTO RIVER BASINS

7-1	Chester.....	Sandy R.....	Chester, S. C.....	16.05	15.92	Oct 1937	11	---	42	---	---	1.29	0.55	---
7-2	Lancaster.....	Turkey Quarter Cr...	Lancaster, S. C.	9.40	9.34	Jun 1938	13.4	---	25.7	65.3	---	1.61	0.417	593
7-3	Spartenburg Municipal	South Pecolet R....	Fingerville, S. C.	91.33	90.8	Jul 1934	8.2	---	38.4	---	---	1.07	0.412	---
	.....00.....	.....00.....	.....00.....	91.33	90.8	Mar 1947	20.9	---	38.4	---	---	0.84	0.324	---
7-4	Apalachie.....	South Tyger R.....	Greer, S. C.....	63.0	62.8	Jul 1934	30	---	40	---	---	1.2	0.48	---
7-5	Albemarle City Lake	Long Creek.....	Albemarle, N. C....	33.0	32.5	Aug 1939	15.5	---	32.4	---	---	0.92	0.302	---
7-6	Cannon Lake.....	Buffalo Cr.....	Kannapolis, N. C..	18.0	17.7	Jun 1941	1.9	---	144	---	---	0.53	0.774	---
7-7	Lake Concord.....	Chambers & Rose Br.	Kannapolis, N. C..	4.7	4.54	May 1935	10.2	---	256	---	---	0.65	1.71	---
7-8	Entwhistle No.3....	Hitchcock Cr.....	Robertell, N. C....	168	18.0	Mar 1940	48	---	1.10	---	---	0.24	0.024	---
7-9	Eury.....	Little R.....	Troy, N. C.....	269	269	Mar 1940	25	---	4.10	---	---	0.46	0.019	---
7-10	High Rock.....	Yadkin R.....	Salisbury, N. C....	3,863	3,863	Aug 1935	7.8	---	73.6	---	---	0.62	0.462	---
7-11	Lake Lee.....	Richerdson Cr.....	Monroe, N. C.....	50.50	50.34	Jun 1938	11.1	---	16.3	61.8	---	1.85	0.302	406
7-12	Pee Dee Mf. Co.....	Hitchcock Cr.....	Rockingham, N. C..	176	25	Mer 1940	66	---	2.64	---	---	0.20	0.036	---
7-13	Salem.....	Salem Cr.....	Winston-Salem, N. C.....	27.68	27.26	Sep 1939	19.8	---	112	38.0	---	0.39	0.444	367
7-14	Norwood Lake.....	Pee Dee R.....	Mt. Gilead, N. C..	4,600	431	Mar 1940	11.75	---	30	---	---	0.22	0.696	---
7-15	Lexington.....	Leonards Cr.....	Lexington, N. C....	6.75	6.66	Apr 1940	4.6	---	68.4	45.5	---	1.00	0.692	685
	.....00.....	.....00.....	.....00.....	6.75	6.66	May 1951	15.7	---	68.4	45.5	---	0.60	0.414	410

SAVANNAH, OGECHEE, AND ALTAMHA RIVER BASINS

8-1	Lake Isseguene.....	Six Mile Cr.....	Clemson, S. C. ....	14.02	13.84	Apr 1941	2.9	---	131	49.8	---	1.67	2.22	2,410
8-2	Lloyd Shoals.....	Ocmulgee R.....	Jackson, Ge.....	14.02	13.86	Oct 1949	11.4	---	131	50.9	---	1.01	1.33	1,470
	.....00.....	.....00.....	.....00.....	1,414	1,407	Mar 1935	24.3	---	79.6	60*	---	0.51	0.408	533

SATILLA, ST. MARYS, ST. JOHNS, AND SIMMANEE RIVER BASINS

SOUTHERN FLORIDA ORAINAGE

APALACHICOLA AND OCHLOCKNEE RIVER BASINS

11-1	Newan.....	Bolton Mill Cr.....	Newan, Ge.....	1.39	1.34	Nov 1937	13.4	---	276	50*	---	0.51	1.45	1,580
	.....00.....	.....00.....	.....00.....	1.39	1.34	Feb 1945	20.7	---	276	50*	---	0.38	1.08	1,180

CHOCTAWHATCHEE, YELLOW, ESCAMBIA, AND ALARAMA RIVER BASINS

12-1	Saguyah.....	Snell Rfs.....	Jasper, Ga.....	1.50	1.51	Jul 1939	10.0	---	556	---	---	0.28	1.56	---
12-2	White Mangrove No. 6	Pettit Cr.....	Cartersville, Ge...	12.46	11.0	Nov 1938	9.2	---	81.9	63.7	---	1.29	1.20	1,560
12-3	Lake Auburn.....	Trials of Tom Cr....	Auburn, Ala.....	1.5	1.5	Jun 1937	6.3	---	63.8	---	---	1.04	0.66	---
12-4	Levy.....	Coosa R.....	Clanton, Ala.....	9.087	9,078.5	May 1936	22.3	---	17.2	---	---	0.52	0.089	---
12-5	Lake Purdy.....	Little Cahabe R.....	Birmingham, Ale....	41.74	40.22	Nov 1935	25.2	---	457	---	---	0.10	0.479	---

- 1/ Includes estimated 112 acre feet passing through Shandeken Tunnel.  
2/ Koon Lake, upstream, was built in 1932.  
3/ Based on total sediments in both Gordon Lake and Koon Lake.  
4/ Based on total of 7.4 acre feet of sediment remaining in reservoir; 0.2 acre foot of sand removed in 1933.  
5/ Excluding 2.04 acre feet of sediment dredged from lake in March 1942.



# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
TOMRISSEE, PASCAGOULA, AND PEARL RIVER BASINS														
13-1	Bayview.....	Village Cr.....	Birmingham, Ala.....	72.3	71.6	Dec 1935	24.6	---	164	---	0.81	1.34	---	---
13-2	Lake Harris.....	Yellow Cr.....	Tuscaloosa, Ala.....	30.0	29.8	Nov 1935	6.75	---	80.7	---	0.29	0.237	---	---
LOWER MISSISSIPPI RIVER BASIN (NATCHEZ TO THE MOUTH)														
Calcasieu, Nementau, and Vermilion River Basins														
LOWER MISSISSIPPI RIVER BASIN (HELENA TO NATCHEZ)														
Iazoo, Big Black, and Ouachita River Basins														
15-1	Lake Hamilton.....	Ouachita R.....	Hot Springs, Ark.....	1,421	1,413.4	May 1950	19.4	---	110	50 *	0.10	0.11	120	---
15-2	Lake Winona.....	Alum Fk., Saline R.....	Little Rock, Ark.....	43.0	41.3	May 1950	12.6	---	803	50 *	0.04	0.37	403	---
15-3	O. P. White Pond.....	Trib of Chewalla Cr.....	Holly Springs, Miss.....	0.0097	0.0089	Jan 1951	3.3	---	150	63.6	3.03	12.1	18,200	---
15-4	B. H. Hennessey Pond.....	Trib of Coldwater R.....	Slayden, Miss.....	0.0625	0.0597	Jan 1951	4.1	---	192	60.1	7.61	15.3	20,000	---
15-5	C. S. Hurdle Pond.....	Trib of Coldwater R.....	Holly Springs, Miss.....	0.244	0.234	Jan 1951	4.1	---	149	62.9	5.00	7.78	10,700	---
15-6	Agnes Jones Pond.....	Trib of Coldwater R.....	Holly Springs, Miss.....	0.0478	0.0451	Jan 1951	4.3	---	184	63.4	6.34	12.4	18,200	---
15-7	Lee Johnson Pond.....	Trib of Red Banks Cr.....	Holly Springs, Miss.....	0.0833	0.0784	Jan 1951	2.3	---	214	76.1	7.30	16.6	27,500	---
15-8	P. T. Alexander.....	Trib of Red Banks Cr.....	Holly Springs, Miss.....	0.0139	0.0128	Jan 1951	8.5	---	177	84.2	6.46	12.4	22,800	---
15-9	Lake Shakoka.....	Trib of Camp Cr.....	Olive Branch, Miss.....	0.4153	0.3663	Feb 1951	17	---	737	61.6	0.96	8.03	10,800	---
15-10	Lake Woodland.....	Trib of Camp Cr.....	Olive Branch, Miss.....	0.5045	0.4797	Feb 1951	6.0	---	186	29.9	2.82	5.52	4,800	---
15-11	C. L. Patton Pond.....	Trib of Red Banks Cr.....	Warsaw, Miss.....	0.1019	0.0954	Feb 1951	9.0	---	156	66.8	2.69	4.48	6,520	---
15-12	Pond.....	Trib of Red Banks Cr.....	Warsaw, Miss.....	0.0156	0.0116	Feb 1951	35	---	788	63.3	0.62	6.55	9,040	---
15-13	Fletcher Hurdle Pond (North).....	Trib of Bayalla Cr.....	Victoria, Miss.....	0.0406	0.0389	Feb 1951	4.0	---	114	63.0	10.5	12.5	17,100	---
15-14	Fletcher Hurdle Pond (South).....	Trib of Bayalla Cr.....	Victoria, Miss.....	0.0297	0.0279	Feb 1951	4	---	185	83.0	8.54	16.8	30,400	---
15-15	Gavoso Lake.....	Trib of Guffava Cr.....	Holly Springs, Miss.....	0.0342	0.0320	Feb 1951	2.7	---	189	78.8	12.9	26.0	44,600	---
15-16	Ben O. Pettis Pond.....	Trib of Mississippi Cr.....	Horn Lake, Miss.....	0.2633	0.2196	Feb 1951	9.0	---	267	51.8	1.09	3.13	3,530	---
15-17	C. O. Williams Pond.....	Trib of Hudson Cr.....	Oxford, Miss.....	0.0075	0.0067	Feb 1951	35	---	217	58.7	0.98	2.39	3,060	---
15-18	R. X. Williams.....	Trib of Yocoma R.....	Taylor, Miss.....	0.0450	0.0418	Mar 1951	23	---	221	55.7	1.41	3.35	4,070	---
15-19	Henry W. Ramsey Pond.....	Trib of Sartre Cr.....	Oxford, Miss.....	0.0239	0.0210	Mar 1951	4.5	---	187	47.7	9.62	20.5	21,300	---
15-20	Dr. Bramlett Pond.....	Trib of Pimokin Cr.....	Oxford, Miss.....	0.1375	0.1289	Mar 1951	18.2	---	225	41.8	1.08	2.61	2,370	---
15-21	A. S. Kyle Pond.....	Trib of Tallahatchie Cr.....	Oxford, Miss.....	0.8672	0.8131	Mar 1951	14.2	---	262	37.4 *	0.40	1.12	913	---
15-22	Ben P. Smith Pond.....	Trib of Pigeon Roost Cr.....	Holly Springs, Miss.....	0.0456	0.0398	Mar 1951	6.0	---	382	52.0	0.718	3.14	3,560	---
15-23	A. L. Boman Pond.....	Trib of Arkabutla Cr.....	Holly Springs, Miss.....	0.0278	0.0264	Mar 1951	3.7	---	136	67.6 *	3.43	4.89	7,200	---
15-24	Charles Dockery Pond.....	Trib of Hurricane Cr.....	Eldora, Miss.....	0.1563	0.1458	Mar 1951	5.5	---	195	49.9 *	0.83	1.95	2,120	---
15-25	Arkabutla.....	Coldwater R.....	Arkabutla, Miss.....	1,000	948	Dec 1947	6.3	521,400	525	43.7 *	0.89	3.60	3,420	---
LOWER MISSISSIPPI RIVER BASIN (CHESTER TO HELENA)														
St. Francis River Basin														
16-1	Grisham.....	Lost Creek.....	St. Marks, Mo.....	0.46	0.45	Jul 1939	8.8	618/sq mi *	52.3	75.4	2.12	1.133	1,860	2,800 *
16-2	Mountain Lake.....	Trib of Rines Cr.....	Patterson, Mo.....	1.90	1.87	Jul 1939	12	---	46.2	54.8	0.45	0.213	254	---
16-3	Shepard Mountain.....	Trib of Stout Cr.....	Ironton, Mo.....	3.99	3.96	Jul 1939	10.0	---	42.9	64	0.78	0.338	471	---
16-4	Loch Mary.....	Brown Cr.....	Earlington, Ky.....	3.81	3.65	Dec 1908	22	---	322	60 *	0.18	0.600	784	---
16-5	Carbondale.....	Piles Fk.....	Carbondale, Ill.....	3.00	2.77	Sep 1948	20.1	---	462	73.9	0.63	3.15	5,070	---
16-6	Derino Coal Co. Pond.....	Trib of Wolf Cr.....	Eldorado, Ill.....	0.219	0.206	Oct 1949	30.0	---	408	76 *	0.61	2.64	4,370	---
16-7	Eldorado.....	Wolf Cr.....	Eldorado, Ill.....	2.23	1.87	Oct 1949	29	---	378	67 *	0.48	2.46	3,180	---
16-8	West Frankfort.....	Tilley Cr.....	West Frankfort, Ill.....	4.03	3.75	Sep 1936	10.1	---	399 1/2	---	0.57 1/2	2.46	---	---
00	.....00.....	.....00.....	.....00.....	R.P.	3.75	Jul 1949	22.9	---	399 1/2	---	0.33 1/2	1.40	---	---



16-9	Pineview (Lower).....	South Fk Jonaca Cr....	Farmington, Mo.....	0.63	0.07	1939	7	---	13.9	60*	1.12	1.43	1,870	---
16-10	Pineview (Middle).....	South Fk Jonaca Cr....	Farmington, Mo.....	0.56	0.06	1939	9	---	55	60*	0.65	3.3	4,310	---
16-11	Pineview (Upper).....	South Fk Jonaca Cr....	Farmington, Mo.....	0.49	0.48	1938	10	563/sq mi*	16.7	85*	3.41	0.583	825	1,900*
16-12	Killarney.....	Big Cr.....	Annapolis, Mo.....	51	51	1939	29	---	16	60*	0.83	0.133	174	---
16-13	Wapapello.....	St. Francis R.....	Poplar Bluff, Mo.....	1,310	1,206	Jul 1947	7.0	1,167,000	447	--	0.008	0.041	---	---

OHIO RIVER BASIN (MAOISON TO UNIONTOWN)  
Wabash River Basin

17-1	Huntingburg (Upper)....	Trib of Patoka R.....	Huntingburg, Ind.....	0.67	0.63	Oct 1940	46.3	774/sq mi*	204	40*	0.28	0.617	536	500
17-2	Oakland City #2.....	So. Fk. Patoka R.....	Oakland City, Ind.....	1,700	0.40	Sep 1940	19.0	806/sq mi*	1,898	40*	1.57	1,720	1,500*	---
17-3	Shafter Lake.....	Tippencanoe R.....	Monticello, Ind.....	1,698	1,698	Aug 1940	17.2	507/ sq mi*	8.7	75*	0.27	0.023	38	---
17-4	Spring Mill.....	Mill Creek.....	Mitchell, Ind.....	15.03	5.29	3/Sep 1948	9.9	---	11.8	67*	2.30	0.575	1,420	---
17-5	Greendale Lake.....	Connor's Branch.....	Xenia, Ill.....	25.1	25.0	Sep 1940	13.1	540/sq mi*	12.2	70*	1.14	0.146	213	600*
17-6	Ridge Lake.....	Trib. of Embarrass R...	Charleston, Ill.....	1.41	1.38	Sep 1947	6.4	---	133	72.4	1.29	1.75	2,760	---
17-7	Vermilion Lake.....	N. Fk. Vermilion R...	Oanville, Ill.....	267	266	Oct 1940	25.3	532/sq mi	32.4 1/2	70*	0.55	0.179	273	600*

TENNESSEE RIVER BASIN (BELOW MALES BAR DAM)  
Cumberland and Green River Basins

18-1	Radnor Lake.....	Other Creek.....	Nashville, Tenn.....	2.1	2.0	Nov 1940	25.7	---	625	--	0.10	0.660	---	---
18-2	Lake Tandy.....	Little River.....	Hopkinsville, Ky.....	9.0	8.9	Jan 1941	34	---	83.7	--	0.79	0.667	---	---
18-3	Great Falls.....	Caney Fork.....	Rock Island, Tenn...	1,675	1,671	Sep 1935	18.8	---	---	---	---	---	---	---
18-4	Guntersville.....	Tennessee R.....	Guntersville, Ala...	24,450	2,550	Nov 1947	8.4	23,971,888	---	---	---	---	---	---
18-5	Wheeler.....	Tennessee R.....	Town Creek, Ala.....	29,590	5,033	Jun 1947	10.7	31,719,544	---	55*	0.32	1,280	1,533	120
18-6	Wilson.....	Tennessee R.....	Florence, Ala.....	30,750	1,135 1/2	Dec 1928	4.6	25,276,338	---	55*	0.32	1,280	1,533	114
00	.....	.....	.....	30,750	1,135 1/2	Dec 1931	7.6	34,253,591	---	53	0.55	---	---	175
00	.....	.....	.....	30,750	1,135 1/2	Dec 1936	12.6	34,361,283	---	53	1.16 1/2	0.853	985	188 1/2
00	.....	.....	.....	30,750	1,135 1/2	Sep 1946	22.4	36,055,995	---	53	1.13 1/2	0.833	962 1/2	175 1/2
00	.....	.....	.....	30,750	1,135 1/2	Jun 1951	27.1	34,084,426	---	53	0.65 1/2	---	---	107 1/2
00	.....	.....	.....	32,820	1,597	Sep 1946	8.6	33,282,195	---	53*	---	---	---	40
18-7	Pickwick Landing.....	Tennessee R.....	Pickwick, Tenn.....	32,820	1,597	Jun 1951	13.3	37,601,384	---	53*	0.143	0.780	900	---
00	.....	.....	.....	40,200	7,152	Aug 1946	6.7	51,471,286	---	---	---	---	---	---
18-8	Kentucky.....	Tennessee R.....	Gilbertsville, Ky...	40,200	7,152	May 1951	6.9	56,219,576	---	---	---	---	---	---
00	.....	.....	.....	.....	.....	.....	.....	.....	---	---	---	---	---	---

OHIO RIVER BASIN (POINT PLEASANT TO MAOISON)  
Kanawha, Big Sandy, Licking, Scioto, and Miami River Basins

19-1	Lake Placid.....	Unnamed Stream.....	Lancaster, Ky.....	0.2	0.2	Sep 1941	38.9	---	570	--	0.44 8/	2.50 8/	---	---
19-2	Radford.....	Little River.....	Radford, Va.....	329	329	Jul 1944	10	---	5	70*	3.8	0.191	291	---
19-3	Englewood.....	Stillwater R.....	Dayton, Ohio.....	651	639	Jul 1942	15	565/sq mi*	479	77.5	0.008	0.037	63	290
19-4	Germantown.....	Twin Creek.....	Germantown, Ohio...	270	264	1942	15	648/sq mi*	333	79.5	0.024	0.097	168	700
19-5	Griggs.....	Scioto R.....	Columbus, Ohio.....	1,053	1,052	1935	3.0	---	4.3	65*	0.47	0.020	28	---
19-6	Ohio Cons. Pond #73...	Blacklick Creek.....	Columbus, Ohio.....	24	24	Jun 1939	2.6	---	0.2	---	17.7	0.035	---	---
19-7	Ohio Cons. Pond #74...	Blacklick Creek.....	Columbus, Ohio.....	23	23	Nov 1939	2.8	---	0.04	---	17.9	0.008	---	---
19-8	Lake White.....	Pee Pee Cr.....	Waverly, Ohio.....	37.4	36.9	Dec 1947	12	---	---	---	0.88	0.094	---	---
19-9	Merrington Lake.....	Olix River.....	Harrodsburg, Ky...	437	431	Oct 1941	16	---	593	---	0.08	0.471	---	---
19-10	Walton.....	Bank Lick Creek.....	Walton, Ky.....	0.25	0.24	1937	6	---	512	50*	0.84	4.46	4,860	---
19-11	Williamstown.....	Grassy Creek.....	Williamstown, Ky...	0.47	0.47	1937	7	---	240	---	0.89	2.13	---	---
19-12	Byllesby.....	New River.....	Byllesby, Va.....	1,310	1,310	May 1956	23.7	---	6.79	---	2.54	0.184	---	---
19-13	O'Shaughnessy.....	Scioto R.....	Columbus, Ohio.....	988	987	Nov 1934	9	---	16.9	65*	0.71	0.121	171	350*
00	.....	.....	.....	988	987	Dec 1942	17	673/sq mi	16.9	---	0.76	0.128	181	---

1/ Spillway crest raised from 439 ft. m.s.l. to 441.77 ft. m.s.l. in April 1943. All data computed on basis of 441.77 ft. at spillway elevation.

2/ Net sediment volume in 1949. The 93.3 acre feet of sediment denested prior to 1936 had compacted, due to exposure to 75.7 acre feet.

3/ The non-contributing drainage acre is chiefly closed, or plugged limestone sinkholes.

4/ In July 1925. In June 1915, Spillway elevation was 5 feet lower and c/w ratio was 4.6.

5/ Sediment contributing area reduced by closing Wheeler Dam on Oct 3, 1936, to 1135 sq. mi.

6/ Based on original volume in the reach from Wilson Dam to Wheeler Dam and to the elevation of top of gates after being raised in 1942.

7/ Includes sediment dredged in 1930 amounting to 61 percent of tabulated values.

8/ Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES	INITIAL CAPACITY- WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET						AC FT	TONS	
TENNESSEE RIVER BASIN (ABOVE HALES BAR DAM)													
20-1	South Holston.....	So. Fk. Holston R.....	Bristol, Tenn.....	703	691	---	---	---	908 1/2	---	---	---	---
20-2	Watauga.....	Watauga R.....	Hampton, Tenn.....	468	458	---	---	---	1,218 1/2	---	---	---	240
20-5	Cherokee.....	Holston R.....	Jefferson City, Tenn...	3,429	3,381 2/3	Apr 1949	7.4	3,076.393	1555	55 *	0.248	297	---
20-6	Holchuck.....	Holchuck R.....	Greeneville, Tenn....	1,183	1,182	Feb 1938	24.5	---	---	50	1.28 3/4	274 1/4	---
20-7	Douglas.....	French Broad R.....	Sevierville, Tenn....	4,541	2,854	Jul 1949	33.7	4,800.601	---	50 *	1.24 3/4	266.8	---
20-8	Fort Loudoun.....	Tennessee R.....	Lenoir City, Tenn....	9,550	1,556	Nov 1946	6.4	9,384.713	---	55 *	0.16	1,018.2	445
20-9	Thoreau.....	W. Fk. Tuckasegee R....	Glennville, N. C.....	36.7	34.4	Jun 1951	7.9	9,639.922	---	---	---	---	---
20-10	Manthala.....	Manthala R.....	Auone, N. C.....	91	80	---	---	---	---	---	---	---	---
20-11	Fontana.....	Little Tennessee R....	Fontana, N. C.....	1,426	1,426	Mar 1950	5.4	3,000.312	---	55 *	0.041	499.5	175
20-12	Cheoh.....	Little Tennessee R....	Tanoco, N. C.....	1,607	1,607	Aug 1941	11.8	---	27	55 *	0.96	216.2	---
20-13	Garville.....	Cove Cr.....	Garville, Tenn.....	35.98	35.65	Nov 1938	2	---	47 1/2	55 *	0.246	294.7	---
20-14	Watts Bar.....	Clinch R.....	Harris, Tenn.....	2,912	2,823	Jan 1947	10.2	2,656.901	702 1/2	62 *	1.76 1/4	1,130	---
20-15	Chattahoochee.....	Hawessee R.....	Spring City, Tenn....	17,310	2,925	Oct 1946	4.8	18,775.397	---	55 *	0.023 1/4	377.3	153
20-16	Chattahoochee.....	Hawessee R.....	Hawessee, N. C.....	189	178	Aug 1949	7.5	322.744	1,311 1/4	55 *	0.07 1/4	623	394
20-17	Nottely.....	Hawessee R.....	Blairsville, Ga.....	214	207	Aug 1947	7.6	284.193	862 1/2	55 *	0.136 1/2	746.3	417
20-18	Hawessee.....	Hawessee R.....	Norfolk, N. C.....	968	524 5a/	Aug 1950	7.5	1,259.555	---	55 *	0.07	854	24
20-19	Alachua.....	Toccoa R.....	Farner, Tenn.....	1,018	48	Apr 1950	13.4	1,540.473	851	---	---	---	---
20-20	Blue Ridge.....	Ocoee R.....	Blue Ridge, Ga.....	232	227	Oct 1949	28.8	1,003.120	---	64 *	4.22 7/8	3,196.3 7/8	981
20-21	Ocoee No. 3.....	Ocoee R.....	Ockton, Tenn.....	496	283	Jul 1945	2.9	630.693	---	64 *	4.15	2,259	781
20-22	Ocoee No. 1.....	Ocoee R.....	Ockton, Tenn.....	496	283	Nov 1946	4.2	700.019	---	64 *	3.92	2,129	757
20-23	Chickamauga.....	Ocoee R.....	Ockton, Tenn.....	496	283	Aug 1948	6.0	758.795	---	64 *	3.41	2,967.1	617
20-24	Hales Bar.....	Tennessee R.....	Chattanooga, Tenn....	595	96 8/	Oct 1949	28.8	1,003.120	---	64 *	0.57	---	636
20-25	Hales Bar.....	Tennessee R.....	Chattanooga, Tenn....	20,790	1,805 9/	Nov 1940	8	17,052.700	---	64 *	0.55	---	622
20-26	Hales Bar.....	Tennessee R.....	Chattanooga, Tenn....	20,790	1,805 9/	Nov 1940	8	17,052.700	---	60 *	0.31	---	124
20-27	Hales Bar.....	Tennessee R.....	Jasper, Tenn.....	21,790	990	Oct 1930	7.5	21,337.800	---	60 *	0.31	---	99
20-28	Hales Bar.....	Tennessee R.....	Jasper, Tenn.....	21,790	990	Oct 1935	22	26,811.325	---	61 *	0.95	---	64
20-29	Hales Bar.....	Tennessee R.....	Jasper, Tenn.....	21,790	990	Oct 1940	27	26,386.179	---	61 *	0.89	---	52
20-30	Hales Bar.....	Tennessee R.....	Jasper, Tenn.....	21,790	990	Oct 1947	33.7	25,600.526	---	61 *	0.73	---	44

## OHIO RIVER BASIN (ABOVE POINT PLEASANT) AND LAKE ERIE DRAINAGE

21-1	Pleasant Hill.....	Clear Fork.....	Perryville, Ohio....	199	195	Feb 1945	6.25	120.257	441	65 *	0.05	0.227	321
21-2	Seneca.....	Seneca Fork.....	Seneca, Ohio.....	121	113	Mar 1945	8.3	99.99110/	731	65 *	0.113	1,260	1,356
21-3	Charles Hill.....	Black Fork.....	Mansfield, Ohio....	216	207	See 1946	8.25	112.200	407	65 *	0.29	1.24	2,380
21-4	Hickston Run.....	Hickston Run.....	Johnstown, Pa.....	10.75	10.57	See 1937	32	---	384	60 *	0.12	0.408	533
21-5	Quemahoning.....	Quemahoning Cr.....	Johnstown, Pa.....	92	90.7	See 1937	25.8	---	210	60 *	0.10	0.377	---
21-6	Salt Lick.....	Salt Lick Run.....	Johnstown, Pa.....	11.86	11.76	See 1937	23	---	18.8	60 *	0.1	0.22	287
21-7	Bridgeport (Hooper).....	Jacobs Cr.....	Mt. Pleasant, Pa.....	32.5	32.33	Nov 1937	50.6	770/sq mi *	72.9	55 *	0.51	0.097	---
21-8	Barbours.....	Wolf Cr.....	Barbours, Ohio.....	28.2	28	Dec 1938	12	---	405	50 *	1.49 11/	1.10	1,320
21-9	Buckeye Lake.....	So. Fk. Licking R....	Millersport, Ohio....	49.2 13/	45.1	Nov 1939	107	---	775	50 *	0.19	0.860	937
21-10	Leesville.....	McGuire Cr.....	Leesville, Ohio.....	48.0	45.7	Nov 1939	3.3	840/sq mi *	405	50 *	0.01	0.067	73
21-11	Muskingum Colliery.....	Tribe. of Muskingum R.	New Concord, Ohio....	0.32	0.31	Nov 1939	20	863/sq mi *	29.4	70 *	1.25	0.381	581
21-12	Ohio Cons. Pond #22.....	Tribe. of Ouck Cr.....	Marietta, Ohio.....	0.05	0.05	Nov 1939	1.1	663/sq mi *	88.6	40 *	4.51	4.0	3,485
21-13	Ohio Cons. Pond #51.....	Tribe. of Ohio R.....	Marietta, Ohio.....	0.13	0.13	Nov 1939	1.1	738/sq mi *	117	40 *	0.84	0.977	851
21-14	Ohio Cons. Pond #52.....	Tribe. of Ohio R.....	Marietta, Ohio.....	0.17	0.16	Nov 1939	1.1	725/sq mi *	106	40 *	1.29	1.45	1,800
21-15	Robins Lake.....	Tribe. of Ohio R.....	Marietta, Ohio.....	4.47	4.47	Dec 1939	17.4	---	20.5	68 *	0.73	0.151	224
21-16	Robins Lake.....	Tribe. of Toughloomy	Uniontown, Pa.....	3.00	2.97	Jun 1939	30	---	50	60 *	0.27	0.135	176
21-17	Lake Ronell.....	Carahoba R.....	Perryville, Ohio....	205.5	124 1/4	Dec 1938	36	---	38.1	46 *	0.2	0.12	120
21-18	Stony Lake.....	McGuire Cr.....	Perryville, Ohio....	8.57	8.54	Dec 1938	11	---	11.1	46 *	3.2	0.438	620
21-19	Tabor Club Lake.....	S. Fk. Muskingum R	Perryville, Ohio....	0.55	0.54	Nov 1938	15	607/sq mi *	97.5	50 *	1.33 15/	1.38	1,900

21-20	Zanesville Nursery L.	No. Br. Blount Run...	Zanesville, Ohio....	2.95	2.93	Jul 1941	4.6	987/sq mi *	26	65 *	1.25 16/	6.225	462	---
21-21	Tionesta Creek.....	Tionesta Cr.....	Tionesta, Pa.....	478	474	Sep 1949	8.6	606,000	268 17/	100 *	0.076	0.204	444	244
21-22	Loyalhanna Creek.....	Loyalhanna Cr.....	Saltsburg, Pa.....	291	286	Oct 1948	6.3	333,200	328 17/	100 *	0.115	0.3762	819	527
21-23	Whiting Creek.....	Whiting Cr.....	Dayton, Pa.....	339	335	Aug 1948	7.3	442,300	219 17/	100 *	0.073	0.160	348	200
21-24	Crooked Creek.....	Crooked Cr.....	Ford City, Pa.....	278	275	See 1945	4.8	290,000	324 17/	100 *	0.022	0.060	150	102
21-25	Twart River.....	Twart R.....	Grafton, W. Va.....	1,163	1,178	Feb 1945	7.0	1,509,800	245 16/	100 *	0.019	0.0455	101.3	55
21-26	Youghiogheny R.....	Youghiogheny R.....	Confluence, Pa.....	434	428	Oct 1949	6.0	621,000	569 19/	100 *	0.069	0.342	745	378
21-27	Atwood.....	Indian Ex.....	Sherrodsville, Ohio.	70	66.2	Dec 1946	6.7	51,150	710	65 *	0.039 20/	0.29	410	395

# GREAT LAKES DRAINAGE (IN MICHIGAN) AND MAHAFEE RIVER BASIN

22-1	Grand 21/.....	St. Marys & Wabash R.	Celina, Ohio.....	118	93	Aug 1940	96	503/sq mi *	1,103 22/	55 *	0.19	2.64	3,162	4,600 *
------	----------------	-----------------------	-------------------	-----	----	----------	----	-------------	-----------	------	------	------	-------	---------

# GREAT LAKES DRAINAGE (IN MICHIGAN & WISCONSIN)

# MISSISSIPPI RIVER BASIN (LOUISIANA TO CHESTER) ILLINOIS, KASKASKIA, AND MERAMEC RIVER BASINS

24-1	Arctic Pond.....	Trib. of Honey Cr.....	Carlville, Ill.....	0.53	0.51	Jul 1949	27	---	331	50 *	0.34	1.17	1,270	---
24-2	Lake Bloomington.....	Honey Cr.....	Hudson, Ill.....	61	60	Aug 1948	18.7	---	109	41.5	0.48	0.532	481	---
24-3	Lake Carlville.....	Carlville, Ill.....	Carlville, Ill.....	26.06	25.79	Jul 1949	10.4	---	66.2	50	1.40	0.934	1,020	---
24-4	Lake Decatur.....	Sanderson R.....	Decatur, Ill.....	906	902	Jun 1936	14.2	539,000	21.8	---	1.00	0.22	248	---
24-5	Shaeffer Pond.....	Trib. of Cahokia Cr.	Edwardsville, Ill.....	0.087	0.083	Jul 1949	11.8	509,000	21.8	51.7	1.08	0.237	267 23/	430
24-6	Lake Springfield.....	Sugar & Lick Creeks.	Springfield, Ill.....	20.2	258	Aug 1948	14.6	---	232	43	1.09	2.65	2,890	---
24-7	Spring Lake.....	Spring Cr.....	Macomb, Ill.....	9.14	20.1	Sep 1947	20.4	---	230	43	0.30	0.705	660	---
24-8	Lake Bracken.....	Brush Cr.....	Galesburg, Ill.....	9.14	8.85	Aug 1936	12.7	---	315	52	2.32	0.701	911	---
24-9	Pittsfield.....	Trib. of Panther Cr.	Pittsfield, Ill.....	1.84	1.77	Dec 1946	21.5	417/sq mi *	199 25/	40 *	0.58	1.97	2,252	---
24-10	Navigation Pool #25 (Winfield Dam).....	Mississippi R.....	Winfield, Mo.....	142,000	26/	Nov 1947	8.33	62,732,590	---	70	1.31	3.55	3,090	5,800 *

1/ Based on capacity at base of flood control pool (top of multiple use).

2/ Includes area above Watauga Reservoir which closed Dec. 1, 1948.

3/ Based on original volume as of 1925 computed from probes obtained Feb. 1938. Capacity is at top of 5-foot flashboards. Prior to 1925 dam was 35 feet lower.

4/ Based on storage at top of flashboards.

5/ Excludes Carlville Reservoir on Cove Creek arm. Note 1/ also applies.

6/ Areas and volumes do not include Persimmon Creek Lake. Notably Reservoir closed 24 Jan. 1942. Chatuge Reservoir closed 12 Feb. 1942.

7/ All values for this Reservoir exclude 553 acre feet (3.86 percent of reservoir capacity) flushed into reservoir in March 1944 by failure of a small retention dam.

8/ Blue Ridge Reservoir closed Dec. 6, 1930. Ocoee No. 3 closed Aug. 15, 1942.

9/ Sediment contributing area reduced by closing Watts Bar Dam Jan. 1, 1942.

10/ Based on 6.4 years of record. Data not available for 1937 and 1938.

11/ Some dredging since 1938.

12/ Drainage area has been 115 square miles (net) part of the time in the past, when fed partly by feeder from S. Fork Kinkersville River.

13/ At present spillway elevation (lowered 0.8 foot in 1908). From 1836 to 1908 C/W ratio was 449. From 1832 to 1836, spillway elevation was lower.

14/ East Branch Res. and many natural lakes act as efficient sediment traps.

15/ Dam failed earlier in 1938, but little sediment lost.

16/ Sediment deposited during flood of July 7, 1941 was 1.64 acre feet of the total storage loss of 4.39 acre feet.

17/ For flood control pool. The sediment rannes cover the reach of the conservation pool. No deposits were observed above a level 10 feet above the conservation pool.

18/ Range lines have not been established in the upstream 40 percent of the reservoir. In the survey, no deposits were observed above the limit of the low-water regulation pool (elev. 1094).

19/ At spillway crest full pool considered to be 2 ft. above spillway crest (C/W ratio 585). Ranges cover only a portion of low-flow regulation pool. Deposits in remaining portion were so small that they were hardly measurable.

20/ Conservation pool was raised 14 ft. in June 1947. Reservoir was empty Nov and Dec 1946 following drawdown in Oct. Some sediment may have been washed out of reservoir during drawdown, as channel below dam was filled with sediment. Sediment was predominately a fine silt with some coarse silt and sand. Original wet color was dark with a purple tinge, which changed to tan when dry.

21/ Drains into both Wabash River and Lake Erie. Originally built as a canal feeder lake. Also known as Lake St. Marys.

22/ At present spillway elevation (lowered 5.37 ft. in 1856). In 1849 C/W ratio was 1870.

23/ Turbidity records indicate that an average of 75 tons annually per square mile of drainage area have passed over spillway. Total annual sediment load per square mile, 1922-46 was 341 tons. Trap eff. 78%.

24/ At top of 13 ft. flashboards added in 1946.

25/ Indeterminate.

26/ Estimated.



# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

## UPPER MISSISSIPPI RIVER BASIN (FAIRMONT TO LOUISIANA) Iowa, Shunk and Des Moines River Basins

25-1	Pool #19 (L. Cooner, Keokuk Dam)	Mississippi R.	Keokuk, Iowa	119,000	119,000	Jun 1928	15	42,600,000	---	---	1.52	---	---	---
25-2	Inner Pine	.....00.....	.....00.....	119,000	119,000	Jun 1938	25	39,400,000	---	---	1.19	---	---	---
25-3	Lake Calhoun	.....00.....	.....00.....	119,000	119,000	Jun 1946	33	41,400,000	---	---	1.06	---	---	---
25-4	Carthage Res.	.....00.....	.....00.....	13.9	13.9	Sep 1947	11.9	242/sq mi*	60*	60*	2.38	1.14	1,490*	4,400*
25-5	McCraney Creek New Desilting Basin	.....00.....	.....00.....	13.1	13.1	Aug 1936	13.3	---	---	---	2.99	0.977	1,190	---
25-6	Pine Lake	.....00.....	.....00.....	13.1	13.1	Jul 1947	22.9	---	---	---	3.20	1.05	1,280	---
25-7	Nadley Creek Old Desilting Basin	.....00.....	.....00.....	2.94	2.94	Aug 1949	23.4	---	---	---	1.03	1.45	1,580	---
25-8	Nadley Creek New Desilting Basin	.....00.....	.....00.....	52.0	52.0	Dec 1939	3	---	---	---	8.75	4.18	7,740	---
25-9	Kiser Creek Desilting Basin	.....00.....	.....00.....	50.2	50.2	1941	5	---	---	---	6.13	2.93	5,420	---
25-10	Beeds Lake	.....00.....	.....00.....	15.34	15.34	1932	8	312/sq mi*	48.1	60*	3.15	1.52	1,990	5,900*
25-11	Crow Creek	.....00.....	.....00.....	77.0	77.0	1936	15	---	---	---	2.57	1.06	1,960	---
25-12	Fairfield No. 3	.....00.....	.....00.....	77.0	77.0	Dec 1939	3	479/sq mi*	40	85*	5.68	2.41	4,460	---
25-13	Springbrook	.....00.....	.....00.....	66.0	66.0	Dec 1939	3	587/sq mi*	42.4	85*	6.07	2.85	5,280	---
25-14	Pool #16	.....00.....	.....00.....	31.8	31.8	1946	11	334/sq mi*	36.3	65*	0.66	0.24	1,000	---
25-15	Pool #20	.....00.....	.....00.....	2.54	2.54	1918	15	294/sq mi*	16.9	70*	2.79	0.476	726	3,100*
		.....00.....	.....00.....	2.98	2.98	1934	9	336/sq mi*	87.6	50*	1.57	1.40	1,530	---
		.....00.....	.....00.....	2.1	2.1	1946	10	217/sq mi*	88.1	50*	0.73	0.638	695	2,800*
		.....00.....	.....00.....	39,400	39,400	Nov 1949	11.7	37,963,000	---	---	0.53	---	---	---
		.....00.....	.....00.....	134,300	134,300	Nov 1950	13.1	51,010,000	---	---	0.18	---	---	---

## UPPER MISSISSIPPI RIVER BASIN (PRAIRIE DU CHIEN TO ROCK ISLAND) & LAKE MICHIGAN DRAINAGE Rock and Wabash/Icon River Basins

26-1	Pool #15	Mississippi R.	Rock Island, Ill	88,500	88,500	Aug 1938	4.5	27,200,000	---	---	0.50	---	---	---
		.....00.....	.....00.....	88,500	88,500	Nov 1944	10.7	32,000,000	---	---	0.28	---	---	---
		.....00.....	.....00.....	88,500	88,500	Dec 1946	12.8	32,800,000	---	---	0.04	---	---	---
		.....00.....	.....00.....	88,500	88,500	Nov 1948	14.7	32,900,000	---	---	0.31	---	---	---
		.....00.....	.....00.....	88,500	88,500	Nov 1950	16.7	32,256,000	---	---	0.24	---	---	---
26-2	Backbone Lake (Forestville Lake)	Maquoketa R.	Strawberry Pt. Iowa	116	116	Feb 1942	7.6	---	5.24	75.1	1.49	0.078	127	---
		.....00.....	.....00.....	116	116	Feb 1949	14.6	---	5.24	---	1.52	0.080	131	---

## UPPER MISSISSIPPI RIVER BASIN (ST. PAUL TO PRAIRIE DU CHIEN) Wisconsin, Root, Chippewa, and St. Croix River Basins

27-1	Elk Creek Lake	Elk Cr.	Eau Claire, Wis.	60	60	Oct 1941	15	623/sq mi*	11.4	70*	2.21	0.252	384	900*
27-2	Etrick Mill Pond	N. Br. Beaver Cr.	Etrick, Wisc.	50.75	50.75	Jun 1939	68	---	2.5	80*	0.94	0.023	40	---
27-3	Marinoka (Oavis Lake)	Beaver Cr.	Galesville, Wisc.	138.2	138.2	Jun 1939	72	550/sq mi*	12.1	72.5	0.82	0.1	158	360*
27-4	Prairie Du Sac	Wisconsin R.	Prairie Du Sac, Wis.	8,900	8,900	Feb 1933	19	15,250	---	90*	0.429	0.717	1,400	40,500
27-5	Pool No. 5A	Mississippi R.	Winona, Minn.-Wisc.	59,100	59,100	Feb 1945	9.6	18,288,000	---	---	1.07 6/	---	---	---

## UPPER MISSISSIPPI RIVER BASIN (ABOVE ST. PAUL)

## RED RIVER OF THE NORTH BASIN

30-1	Lake Bronson.....	Two Rivers.....	Bronson, Minn.....	439	438.5	Oct 1950	IC	---	8.64	30.94	0.44	0.028	25.6	---
MISSOURI RIVER BASIN (NEBRASKA CITY TO HERMAH) Osage, Gasconade, and Grand River Basins														
31-1	Lake of the Ozarks (Baneill Dam).....	Osage R.....	Eldon, Mo.....	14,000	13,900	Oct 1948	17.8	7,249,000	149	59.2	0.308	0.464	598	854
31-2	Carl Chiquist.....	Trib. of W. Rodaway R	Stanton, Iowa.....	0.166	0.163	May 1949	10.9	5.7 inches*	51	49.8	4.43	3.87	4,200	9,880
31-3	L. H. Fuelling.....	Trib. of Tarkio Cr.....	Westboro, Mo.....	1.05	1.04	May 1949	9.8	5.5 inches*	30.3	82.5	5.21	2.54	3,590	9,910
31-4	McDaniel Lake.....	Little Sac R.....	Springfield, Mo.....	41.9	41.5	Jun 1940	11	---	82	60*	0.65	0.538	703	---
31-5	Coniohan County Old Desaiting Basin.....	Chase Cr.....	Blair, Kans.....	1.62	1.58	Jun 1937	10	6.2 inches*	98.3	88.4	8.52	8.58	15,700	34,240
31-6	Leavenworth County State Lake.....	Unnamed Trib.....	Tonganoxie, Kans.....	3.83	3.56	Nov 1947	16.1	1,058	1,023	61.45	0.23	2.53	3,386	8,383
31-7	Lyons County State Lake (Reading Lake).....	---	Reading, Kans.....	2.19	1.79	7 Aug 1939	4	---	863	60*	0.26	2.73	3,568	---
31-8	Mission Lake.....	Osage River Basin.....	Ottawa, Kans.....	0.18	0.17	Oct 1937	6.9	---	183	60*	1.45	2.82	3,675	---
31-9	Mission Lake.....	Mission Cr.....	Horton, Kans.....	8.15	7.76	May 1937	13.0	---	227	68.2	1.20	0.86	3,874	---
31-10	Noran Lake.....	So. Fk. Osage R.....	Moran, Kans.....	5.35	5.28	Seo 1939	26.4	---	116	60.4	1.55	1.84	2,421	---
31-11	Lake Olithe.....	Cedar Cr.....	Olathe, Kans.....	6.2	6.11	Jun 1937	4.9	---	116	57.6	1.30	2.24	2,810	---
31-12	Lamp Lake.....	Unnamed Trib.....	Richmond, Kans.....	2.17	2.07	Oct 1937	28	---	187	60*	1.02	2.00	2,614	---
31-13	Richmond Farm Pond.....	Trib of Huddy Cr.....	Howe, Neb.....	0.065	0.064	Dec 1948	6.3	---	46.2	57.4	5.13	2.41	3,010	7,860
31-14	E. W. Howell.....	Trib of Tarkio Cr.....	Tarkio, Neb.....	0.509	0.505	May 1949	6.9	8/ 3.3 inches*	66.2	72.5	12.1	9.66	15,250	63,300
31-15	Allerton.....	So. Charlton R.....	Allerton, Iowa.....	4.98	4.82	Nov 1939	25.5	---	103	60*	0.84	0.894	1,170	---
31-16	Centerville #2.....	Nelson's Branch.....	Centerville, Iowa.....	2.70	2.62	1937	11	---	411	60*	5.5	2.12	2,760	---
31-17	Lake of Three Fires... E. Fk. 102 R.....	---	Bedford, Iowa.....	6.15	5.97	Feb 1950	13.6	---	200	--	2.22	4.58	---	---

## SMOKEY HILL AND LOWER REPUBLICAN RIVER BASINS

32-1	Ottawa County State L.	Sand Cr.....	Bennington, Kans.....	20.47	20.26	Apr 1937	8.0	---	48.9	--	0.89	0.438	---	---
32-2	Sheridan County State Lake.....	Saline R.....	Quinter, Kans.....	493	463	Aug 1948	10.8	---	1	66.5	4.06	0.681	98.6	---
32-3	State Lake.....	Smoky Hill R.....	Kanopolis, Kans.....	7,860	2,308 g/	Nov 1950	4.3	276,070	57	50*	0.22	0.127	138	2,900
	.....00.....	.....00.....	.....00.....	7,860	2,308 g/	Nov 1951	5.3	424,000	57	58*	0.30	0.562	735	2,850

UPPER REPUBLICAN, NORTH PLATTE, RIVER BASINS (FT. LARAMIE TO NORTH PLATTE)  
AND SOUTH PLATTE RIVER BASIN (SUBLETTIE TO NORTH PLATTE)

33-1	Wellfleet.....	Medicine Cr.....	Wellfleet, Neb.....	15	14.89	May 1937	5.6	---	34.6	65*	1.89	0.66	934	---
------	----------------	------------------	---------------------	----	-------	----------	-----	-----	------	-----	------	------	-----	-----

- 1/ Indeterminate  
 2/ Spillway raised 2.89 ft. in 1946. Original c/w ratio was 21.8. All sedimentations and storage loss data based on the higher spillway elevation.  
 3/ Excludes Mississinoui River Bottom land.  
 4/ Reservoir no longer visible on 1939 aerial photos.  
 5/ Flow from 8,200 sq mi of drainage area passes through power dams which act as trans.  
 6/ Flow elevation 651.0. Amount includes 1,310 acre-feet determined by the survey plus 1,770 acre-feet of channel dredging.  
 7/ Excluding area of lake and 0.31 sq mi above stock pond.  
 8/ Reservoir silted full Dec 1936, crest raised June 1937, silted full again Dec, 1940, crest raised again May 1945, silted full again May 1949.  
 9/ 7,860 prior to closure of Cedar Bluff Dam December 1950.  
 \* Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES FEET	INITIAL CAPACITY- WATERSHED IN AC FT PER CO MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM RY WT
				TOTAL	NET							AC FT	TONS	

## NORTH PLATTE RIVER BASIN (ABOVE Ft. LARAMIE) SOUTH PLATTE RIVER BASIN (ABOVE SUBLETTE)

34-1	Castledown.....	Cherry Cr.....	Denver, Colo.....	167.2	166.9	Aug 1933	43	---	22.9	77.5	0.43	0.099	167	---
34-2	Kenwood.....	Cherry Cr.....	Denver, Colo.....	387	386	Jun 1938	2.25	---	25.3	75.6	0.42	0.106	175	---
34-3	Guernsey.....	North Platte R.....	Guernsey, Wyo.....	387	386	Jun 1939	3.25	---	25.3	---	1.19	0.301	495	---
	.....	.....	.....	16,200	5,400	Jan 1931	3.33	1,495-514	13.42	---	---	0.284	---	---
	.....	.....	.....	16,200	5,400	Jan 1933	5.83	1,361-192	13.42	---	---	0.273	---	---
	.....	.....	.....	16,200	5,400	Jan 1935	7.63	1,316-774	13.42	---	---	0.253	---	---
	.....	.....	.....	16,200	5,400	Feb 1937	9.53	1,238-704	13.42	---	---	0.236	---	---
	.....	.....	.....	16,200	5,400	Feb 1939	11.93	1,236-319	13.42	---	---	0.239	---	---
	.....	.....	.....	16,200	5,400	Jan 1941	13.93	1,194-195	13.42	---	---	0.229	---	---
	.....	.....	.....	16,200	5,400	Jan 1944	16.93	1,180-148	13.42	---	---	0.226	---	---
	.....	.....	.....	16,200	5,400	Jul 1947	20.43	1,175-657	13.42	53.2	0.025	0.224	250	877
34-4	Lake Cheesman.....	South Platte R.....	Rockers, Colo.....	1,766	1,460	Sep 1931	31	140,799	44.77	70 *	0.045	0.0244	37.20	277.6

## MISSOURI RIVER BASIN (ABOVE BLAIR TO NEBRASKA CITY) PLATTE RIVER BASIN (BELOW NORTH PLATTE)

35-1	Otto Beak.....	Trib of Soldier R....	Ricketts, Iowa.....	0.159	0.157	Apr 1949	4.6	7.8 inches*	43.5	54.9	5.48	6.41	7.670	13,390
35-2	Fred Brown.....	Trib of Willow R....	Logan, Iowa.....	0.100	0.097	May 1949	7.9	6.0 inches*	118.9	53.2	4.32	9.51	13,080	29,180
35-3	William Esbeck.....	Trib of Elkhorn R....	Elkhorn, Iowa.....	0.208	0.204	May 1949	9.0	6.3 inches*	60.6	56.2	4.86	4.41	11,590	9,580
35-4	G. & A. Evers Lower Res	Trib of Boyer R....	Denison, Iowa.....	0.187	0.139	Apr 1949	10.3	6.1 inches*	35.5	59.8	2.51	3.75	5,700	12,370
35-5	G. & A. Evers Upper Res	Trib of Boyer R....	Denison, Iowa.....	0.045	0.044	Apr 1949	10.1	6.1 inches*	42.2	71.4	6.29	3.77	5,870	13,360
35-6	Charles Fienhold.....	Trib of Boyer R....	Dunlap, Iowa.....	0.425	0.425	Apr 1949	3.9	7.9 inches*	29.5	63.1	10.3	5.87	8,070	7,000
35-7	C. T. Gadd.....	Trib E. Nishnabotna..	Stennett, Iowa.....	0.081	0.079	May 1949	8.4	6.3 inches*	91.7	63.9	1.37	2.35	3,270	7,000
35-8	Otto Goslar.....	Trib E. Nishnabotna..	Charter Oak, Iowa..	0.089	0.086	May 1949	8.8	6.5 inches*	114	68.8	1.57	2.50	3,750	215,950
35-9	Thomas Hodkin.....	Trib of Soldier R....	Ute, Iowa.....	0.130	0.127	Mar 1949	2.8	6.1 inches*	149	83.2	33.9	53.9	97,740	14,150
35-10	Fred Hollrah.....	Trib of Willow Cr....	Pisgah, Iowa.....	0.217	0.213	Mar 1949	4.6	7.7 inches*	87.5	58.3	3.70	6.35	8,060	4,900
35-11	Jones Creek.....	Trib of Boyer R....	Denison, Iowa.....	2.26	2.25	Apr 1949	6.9	7.1 inches*	33.5	47.8	2.00	2.09	2,170	9,740
35-12	Emma La Frontiz.....	Trib of L. Nemaha R..	Syracuse, Neb.....	0.155	0.152	Nov 1948	6.9	7.9 inches*	81.9	56.7	4.64	4.31	5,690	12,650
35-13	Jenson-Neil Farm Pond	Trib of L. Nemaha R..	Syracuse, Neb.....	0.199	0.193	Nov 1948	12.0	3.9 inches*	119	56.9	2.43	2.97	3,680	10,200
35-14	Paterson Farm Pond....	Trib of Elk Cr.....	Aspinwall, Iowa....	0.075	0.074	Jul 1948	1.75	7.8 inches*	27.5	53.2	7.86	2.19	2,850	10,200
35-15	Alfred Lage.....	Trib of Elk Cr.....	Aspinwall, Iowa....	0.184	0.182	Apr 1949	7.8	7.8 inches*	31	53.2	3.05	1.68	1,950	3,410
35-16	Herman Mattson.....	Trib of Boyer R....	Denison, Iowa.....	0.038	0.036	Apr 1949	4.8	8.2 inches*	217	69.1	1.34	4.42	5,275	8,950
35-17	Wilbur Meyer.....	Trib of Boyer R....	Denison, Iowa.....	0.237	0.233	Apr 1949	4.4	8.4 inches*	39.2	56.3	4.92	4.28	6,440	10,610
35-18	Max Miller #1.....	Trib W. Nishnabotna R	Macedonia, Iowa....	0.223	0.218	May 1949	7.5	8.4 inches*	37.2	56.3	3.36	3.60	4,410	7,150
35-19	Max Miller #5.....	Trib W. Nishnabotna R	Macedonia, Iowa....	0.233	0.228	May 1949	7.5	8.6 inches*	34.1	55.2	2.55	4.00	5,680	11,520
35-20	Barney Mundt.....	Trib of Boyer R....	Denison, Iowa.....	0.336	0.330	Apr 1949	4.5	8.1 inches*	38.5	54.6	2.82	5.17	8,180	16,730
35-21	Tracy North.....	Trib of Boyer R....	Vail, Iowa.....	0.245	0.238	Apr 1949	9.4	6.9 inches*	149	52.7	1.88	3.29	3,930	6,340
35-22	Lake Ericson.....	Cedar R.....	Ericson, Neb.....	500	41	Apr 1948	32.9	64,900	26	80	1.08	0.434	7,756	8,220

## MISSOURI RIVER BASIN (NIDRARA TO ABOVE BLAIR)

36-1	Split Rock.....	Trib of Big Sioux R...	Ihlen, Minn.....	41.3	41.1	Jun 1949	10.9	2.0 inches*	21.8	42.8	2.11	0.462	431	2,960
36-2	C. A. Stiles.....	Trib of Ashton Cr....	Washita, Iowa.....	0.593	0.576	Mar 1949	8.3	6.0 inches*	77.6	46.9	1.23	1.25	1,280	2,820
36-3	Farmers' Ditch Old Desilting basin.....	Farmers' Ditch.....	Bronson, Iowa.....	22.9	21.4	Feb 1945	3.8	4.3 inches*	29.4	68.3	6.32	4.91	7,300	21,880

## MISSOURI RIVER BASIN (ABOVE PIERRE TO NIOBRARA)

37-1	Elkins Stock Pond No 1	8r of Frozenman Cr...	Hayes, So. Dak.....	0.53	0.57	Jun 1937	28	---	32.1	41.3	0.54	0.17	153	---
37-2	Elkins Stock Pond No 2	8r of Frozenman Cr...	Hayes, So. Dak.....	0.33	0.33	Jun 1937	26	---	13.2	36.6	1.03	0.136	108	---
37-3	Land Utilization Project No. 226-1....	Trib of Bad R.....	Pierre, So. Dak.....	0.203	0.197	Jul 1945	9.3	---	82.3	---	0.97	0.822	---	---

37-4	Land U. Proj No. 226-2	Trib of Missouri R...	Pierre, So. Oak.....	0.995	0.981	Jul 1945	9.3	---	34.2	--	1.32	0.458	---
37-5	Land U. Proj No. 226-4	Trib of Bad R.....	Pierre, So. Oak.....	0.742	0.748	Jul 1945	9.2	---	18.2	--	2.94	0.539	---
37-6	Land U. Proj No. 226-6	Trib of Missouri R...	Pierre, So. Oak.....	2.565	2.541	Jul 1945	9.3	---	12.4	--	2.28	0.285	---
37-7	Land U. Proj No. 226-13	Trib of Bad R.....	Pierre, So. Oak.....	0.166	0.163	Jul 1945	8.7	---	54.8	--	0.93	0.521	---
37-8	Land U. Proj No. 226-21	Trib of Missouri R...	Pierre, So. Oak.....	0.245	0.234	Jul 1945	8.7	---	118	--	1.12	---	---
37-9	Land U. Proj No. 226-22	Trib of Bad R.....	Pierre, So. Oak.....	0.514	0.511	Jul 1945	8.7	---	17.9	--	1.11	0.200	---
37-10	Land U. Proj No. 226-25	Trib of Missouri R...	Pierre, So. Oak.....	0.147	0.144	Jul 1945	7.7	---	63.3	--	1.24	0.799	---
37-11	Land U. Proj No. 226-31	Trib of Missouri R...	Pierre, So. Oak.....	0.225	0.220	Jul 1945	8.3	---	61.8	--	1.36	0.859	---
37-12	Land U. Proj No. 226-32	Trib of Missouri R...	Pierre, So. Oak.....	0.477	0.472	Jul 1945	8.3	---	29.6	--	1.70	0.508	---
37-13	Land U. Proj No. 226-34	Trib of Missouri R...	Pierre, So. Oak.....	1.222	1.209	Jul 1945	8.1	---	36.3	--	1.21	0.443	---
37-14	Land U. Proj No. 226-35	Trib of Missouri R...	Pierre, So. Oak.....	0.508	0.502	Jul 1945	7.2	---	36.2	--	1.72	0.631	---
37-15	Land U. Proj No. 243-1	Trib of Missouri R...	Pierre, So. Oak.....	0.108	0.106	Jul 1945	7.7	---	25.0	--	3.19	0.811	---
37-16	Land U. Proj No. 243-2	Unnamed Stream.....	Pierre, So. Oak.....	0.134	0.131	Jul 1945	7.7	---	38.8	--	5.56	2.206	---
37-17	Land U. Proj No. 243-5	Trib of Missouri R...	Pierre, So. Oak.....	0.072	0.070	Jul 1945	7.7	---	36.1	--	1.88	0.700	---
37-18	Land U. Proj No. 243-6	Trib of Bad R.....	Pierre, So. Oak.....	0.117	0.116	Jul 1945	7.7	---	27.4	--	1.72	0.474	---
37-19	Land U. Proj No. 243-10	Trib of Missouri R...	Pierre, So. Oak.....	0.533	0.532	Jul 1945	7.1	---	6.94	--	3.19	0.222	---
37-20	Land U. Proj No. 243-11	Trib of Missouri R...	Pierre, So. Oak.....	0.339	0.338	Jul 1945	7.0	---	13.3	--	2.00	0.266	---

MISSOURI RIVER BASIN (MOBRIDGE TO ABOVE PIERRE)  
Cheyenne and Belle Fourche River Basins

38-1	Johnson's Stock Pond..	Trib of L. Cheyenne R	Gettysburg, So. Oak.	0.191	0.188	Jun 1937	25.0	---	13.4	58.1	1.17	0.16	---
38-2	Bartel Stock Pond.....	Little Cheyenne Cr...	Gettysburg, So. Oak.	0.609	0.606	Jun 1937	29.0	---	7.06	53.6	1.16	0.08	---

MISSOURI RIVER BASIN (WILLISTON TO MOBRIDGE)  
Horeau, Grand, Cannonball, Heart, and Little Missouri River Basins

39

MISSOURI RIVER BASIN (ZORTMAN TO WILLISTON)  
Milk & Musselshell River Basins

40

MISSOURI RIVER BASIN (ABOVE ZORTMAN)

41

LOWER YELLOWSTONE RIVER BASIN  
Tongue & Powder River Basins

42-1	Baker.....	Sandstone Cr.....	Baker, Mont.....	5.20	5.01	May 1937	29.1	---	145	39	1.15	1.74	---
42-2	Tongue River.....	Tongue R.....	Becker, Mnt.....	1,740	1,734	Oct 1948	9.42	---	41.67	70.5	0.45	0.188	1,187.5
								310,176					

UPPER YELLOWSTONE RIVER BASIN

43-1	Buffalo Bill.....	Shoshone R.....	Cody, Wyo.....	1,470	1,460	1941	31	979,515	310.09	--	0.11	0.353	---
------	-------------------	-----------------	----------------	-------	-------	------	----	---------	--------	----	------	-------	-----

\* Estimated or assumed.



# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATE SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY- WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

## ARKANSAS RIVER BASIN (VAN BUREN TO LITTLE ROCK) WHITE RIVER BASIN

44-1	Lake Bennett.....	East Fork Cr.....	Conway, Ark.....	4.16		4.11	Nov 1935	---	119	--	2.20	2.63	---	---
44-2	Lake Booneville.....	Trib of Petit Jean Cr.....	Donnellville, Ark.....	4.16		4.11	Nov 1946	---	119	--	0.23	0.28	---	---
44-3	Fort Smith.....	Jack & Jones Creeks.....	Mountainburg, Ark.....	2.60		2.57	Nov 1935	---	111	--	0.40	0.455	---	---
44-4	Lake Bailey.....	Cedar Cr.....	Morrilton, Ark.....	65		64	Apr 1940	---	212	--	0.14	0.31	---	---
44-5	Lake Taneycomo.....	White Cr.....	Dranson, Mo.....	15.2		15	May 1940	---	41	--	1.59	0.66	---	---
44-6	Nimrod.....	Fourche La Fave R.....	Nimrod, Ark.....	4,610		4,606	Aug 1935	---	9.54	--	2.06	0.196	---	---
44-7	Norfolk.....	North Fork R.....	Norfolk, Ark.....	680		652	Apr 1950	822,000	494	62	--	1/	---	---
				1,866		1,772	May 1950	1,590,000	864	60	--	2/	---	---

## ARKANSAS RIVER BASIN (TULSA TO VAN BUREN) Grand, Verdigris and Lower Canadian River Basins

45-1	Lake Wedington.....	Trib of Illinois R.....	Fayetteville, Ark.....	4.06		3.92	Aug 1947	---	310	--	0.09	0.278	---	---
45-2	Wilson.....	Wilson Cr.....	Fayetteville, Ark.....	2.56		2.50	Jun 1940	9.75	222	--	0.10	0.23	---	---
45-3	Lake Sapulpa.....	Euche Cr.....	Sapulpa, Okla.....	8.52		8.57	Dec 1935	22.5	125	--	0.74	0.949	---	---
45-4	Brown Lake.....	Peaceable Cr.....	McAlester, Okla.....	8.72		8.57	Dec 1946	33.5	125	--	0.69	0.877	---	---
45-5	Lake McAlester.....	Alt Cr.....	McAlester, Okla.....	20.9		19.5	Apr 1949	5.9	236	--	1.36	3.37	---	---
45-6	Lake Okmulgee.....	Salt Cr.....	Okmulgee, Okla.....	30.7		28.2	Apr 1941	22	599	--	0.22	1.43	---	---
45-7	Shawnee Lake.....	Sc Cr.....	Shawnee, Okla.....	40.1		38.2	Dec 1939	12.3	798	--	0.20	0.532	---	---
45-8	Taft Lake.....	Trib of Deep Fork Cr.....	Taft, Okla.....	21.9		18.6	Dec 1947	10	1,760	--	0.25	3.23	---	---
45-9	Hwassee Lake.....	8 Cr.....	Armadia, Okla.....	4.9		4.2	Apr 1950	14	511	--	0.56	0.65	---	---
45-10	Lake Carlton.....	Fourche Maline Cr.....	Wilburton, Okla.....	4.38		4.29	Apr 1950	10	511	--	0.74	0.21	---	---
45-11	Holdenville City Lake.....	Beaure Cr.....	Holdenville, Okla.....	19.8		19.7	Jul 1947	14	29	--	0.44	5.22	---	---
45-12	Pretty Water Lake.....	8 Cr.....	Sapulpa, Okla.....	8.95		8.30	Apr 1950	18.8	1,100	--	0.60	0.85	---	---
45-13	Greenleaf Lake.....	8 Cr.....	Muskogee, Okla.....	2.43		2.40	Dec 1946	10.75	142	--	0.3	0.47	---	---
45-14	Kirk Lake.....	8 Cr.....	Okla, Kans.....	81.25		79.84	Nov 1941	4.7	160	--	0.91	0.43	---	---
45-15	Lowell.....	Sprg. R. & Shoal Cr.....	Baxter Springs, Kans	2.41		2.36	Sep 1939	42	46	60*	0.79	0.04	52.3	---
45-16	Neosho County State L.....		Parsons, Kans.....	2,210.0		2,208	Aug 1939	12.1	4.71	---	0.35	0.74	967	---
45-17	(Lake McKinley).....		Claremore, Okla.....	3.38		3.24	Aug 1939	12.1	201	60*	0.98	0.749	835	---
45-18	Lake Claremore.....	Dog Cr.....	Spavinaw, Okla.....	56.44		55.70	Oct 1939	8.4	75	---	0.34	0.269	---	---
45-19	Lake Spavinaw.....	Spavinaw Cr.....	Chelsea, Okla.....	400		397.2	Jul 1935	11	79.2	---	0.34	0.35	---	---
45-20	Kennamer Lake.....	Trib of Pryors Cr.....	Claremore, Okla.....	0.28		0.27	1939	5	100	---	0.65	0.18	---	---
45-21	State Fish Hatchery L.....	Happy Cr.....	Pryor, Okla.....	1.21		1.20	1939	16	28.1	---	1.13	0.46	---	---
45-22	Lake Scarbow.....	Trib of Pryor Cr.....	Pryor, Okla.....	3.07		3.04	1939	8	40.1	---	---	---	---	---

## ARKANSAS RIVER BASIN (GARDEN CITY TO TULSA) Middle Canadian, Lower Cimarron, and Salt Fork River Basins

46-1	Fort Supply.....	Wolf Cr.....	Supply, Okla.....	1,735		1,726	Jun 1949	6.4	62	57.8	0.17	0.108	136	2,800
46-2	Great Salt Plains.....	Salt Fork of Ark. R.....	Jet, Okla.....	3,200		3,156	Dec 1949	8.5	96	48.6	0.601	0.586	620	3,390
46-3	Boomer Lake.....	Boomer Cr.....	Stillwater, Okla.....	9.13		8.67	Jun 1935	10.25	308	60	0.59	1.53	2,522	---
46-4	Bennington's Lake.....	Chikaskia R.....	Rago, Kans.....	1.42		1.40	Oct 1940	11.2	---	69.47	5.00	2.68	4,055	---
46-5	Meade County State L.....	Stump Arroyo.....	Meade, Kans.....	18		17.84	Apr 1937	8.8	49.5	60*	0.92	0.459	600	---
46-6	(Lake Larrabee).....	Medicine Lodge R.....	Medicine Lodge, Kan.	1.89		1.84	Oct 1940	11.2	---	98.52	1.71	3.40	7,286	---
46-7	Santa Fe.....	Indianola Cr.....	Augusta, Kans.....	37.53		37.55	May 1937	8.6	45.9	58.1	0.98	0.45	569	---
46-8	Guthrie.....	Trib of Cottonwood R.....	Guthrie, Okla.....	13.30		12.95	May 1935	14.5	230	60*	1.03	2.42	3,162	---
46-9	Gallier's Stock Pond.....	Bois d'Arc Cr.....	Blackwell, Okla.....	0.31		0.31	Sep 1940	1.0	12.1	65*	8.29	1.0	1,416	---
46-10	Norris Stock Pond.....	Bois d'Arc Cr.....	Blackwell, Okla.....	0.22		0.21	Sep 1940	2.5	57.4	65*	0.82	0.495	701	---
46-11	Lake Eldorado.....	Satchel Cr.....	Eldorado, Kans.....	35.1		34.3	Apr 1937	9.0	91.5	66	0.45	0.426	612	---



ARKANSAS RIVER BASIN (LAWAR TO GAROER CITY)  
Lower Cimarron and Upper Canadian River Basins

47-1	Conchas.....	Canadian R.....	Hawkins, W. Mex.....	7,350	6,950	May 1940	1.4	----	82	75.7	0.17	0.144	255	14,863
	.....00.....	.....00.....	.....00.....	7,350	6,950	Jun 1942	3.4	436,485	82	75.7	0.76	0.677	1,116	13,079
	.....00.....	.....00.....	.....00.....	7,350	6,950	Nov 1942	3.3	510,878	82	75.7	0.88	0.757	1,248	12,498
	.....00.....	.....00.....	.....00.....	7,350	6,950	Oct 1944	5.7	381,919	82	75.7	0.71	0.615	1,014	13,573
	.....00.....	.....00.....	.....00.....	7,350	6,950	Feb 1949	10.1	266,536	82	75.7	0.58	0.498	821	15,671
47-2	Reservoir No. 5.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----
47-3	Reservoir No. 7 & 8.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----
47-4	Reservoir No. 11.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----
47-5	Reservoir No. 12.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----
47-6	Reservoir No. 13.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----
47-7	Reservoir No. 14.....	(Offstream).....	Maxwell, New Mex.....	----	----	1946	34	----	----	----	----	----	----	----

RIO GRANDE BASIN (ABOVE ESPANOLA) AND ARKANSAS RIVER BASIN

48-1	John Martin.....	Arkansas R.....	Caddo, Colo.....	18,933	17,080	Jan 1942	3	----	37	75.7	----	----	----	12,443
	.....00.....	.....00.....	.....00.....	18,933	17,080	Dec 1943	1.7	887,471	37	75.7	1.1	0.436	750	16,186
	.....00.....	.....00.....	.....00.....	18,933	17,080	Nov 1944	2.4	753,540	37	75.7	1.1	0.438	742	12,048
	.....00.....	.....00.....	.....00.....	18,933	17,080	May 1948	6.1	453,186	37	75.7	0.61	0.251	422	11,467
48-2	Brown Reservoir No. 1.....	Van Bremer Arroyo.....	Trinidad, Colo.....	74.6	74.4	Nov 1939	39	----	10.2	89.07	2.28	0.233	452	----
48-3	Muddy Creek.....	Muddy Cr & John Cr.....	Caddo, Colo.....	154.2	152.4	Nov 1939	20	----	109.7	75.25	0.48	0.535	877	----
48-4	Morse Creek.....	Horse Cr.....	Ordway, Colo.....	52.01	47.44	Apr 1939	35.4	----	696	68.36	15.12	0.241	1,515	----
48-5	Teller.....	Tucker Cr.....	Pueblo, Colo.....	78.8	78.5	Feb 1940	28.9	----	50.8	75.4	1.33	0.680	1,117	----
48-6	Cucharas.....	Cucharas R.....	Walsenburg, Colo.....	608	608	Feb 1937	25	----	63	----	----	0.87	----	----
	.....00.....	.....00.....	.....00.....	608	608	1939	27	----	63	----	1.47	0.93	----	----

RED RIVER BASIN (DENISON TO GRAND ECORE)  
Little and Saline River Basins

49-1	Lake Crook.....	Pine Cr.....	Paris, Texas.....	53.6	51.6	Mar 1936	13.1	----	214	----	0.49	1.08	----	----
49-2	Lake Gibbons.....	Trib of Pine Cr.....	Paris, Tex.....	1.46	1.26	Mar 1936	36	----	968	----	0.15	1.72	----	----
49-3	Nashville.....	Mine Cr.....	Nashville, Ark.....	10.4	10.3	Jun 1941	10.3	----	17.4	----	2.85	0.50	----	----

RED RIVER BASIN (ABOVE DENISON)

50-1	Armstrong Club Lake.....	Caddo Cr.....	Armstrong, Okla.....	4.15	3.91	Jun 1938	15.5	----	433	40.7	0.55	2.52	2,234	----
50-2	Rivers Club Lake.....	Unnamed Stream.....	Rivers, Okla.....	2.66	2.55	Nov 1950	46	----	191	----	0.58	1.16	----	----
50-3	Carter Lake.....	Big Glasses Cr.....	Madill, Okla.....	1.81	1.70	Nov 1949	13	----	478	----	0.25	1.26	----	----
50-4	J. J. Harrison Lake.....	Trib of Washita R.....	Lindaav, Okla.....	0.88	0.81	Nov 1950	18	----	397	----	1.07	4.59	----	----
50-5	C. W. Lester Pond No. 1.....	Trib of Broken Leg Cr.....	Chevenne, Okla.....	2.04	2.03	Jun 1949	4	----	20.8	----	11.56	2.41	----	----
50-6	C. W. Lester Pond No. 2.....	Trib of Broken Leg Cr.....	Chevenne, Okla.....	0.64	0.63	Jun 1949	5	----	25.5	----	3.93	1.02	----	----
50-7	Santa Rosa Lake.....	Reaver Cr.....	Vernon, Tex.....	336	334	Jan 1948	18.2	----	46.9	----	1.5	0.689	----	----
50-8	Lake Duncan.....	Fitzpatrick Cr.....	Quincy, Okla.....	11	10.4	Aug 1950	12.8	----	572	63.4	0.63	3.82	5,275	----
50-9	Lake Clinton.....	Turkey Cr.....	Canute, Okla.....	23.6	23.1	Jun 1938	7.4	----	187	63.36	1.33	2.54	3,505	----
	.....00.....	.....00.....	.....00.....	23.6	23.1	Nov 1950	12.4	----	187	65.9	1.23	2.34	3,359	----
50-10	Rellevue.....	Clay Cr.....	Bellevue, Tex.....	1.5	1.44	May 1938	50	----	87	52.3	0.70	0.64	----	----
50-11	Altus.....	N. Fk. Red R.....	Altus, Okla.....	2,560	2,560	Jun 1948	7.5	175,200	61.2	52.3	0.68	0.418	476	7,090
50-12	L. Texoma (Denison Dam).....	Red R.....	Denison, Tex.....	38,291	28,971	Oct 1948	6.2	4,531,000	----	52.1	0.387	0.784	890	4,190

1/ Suspended-load inflow was 603 acre-feet, suspended-load outflow was 200 acre-feet during period.

2/ Sediment inflow volume was computed to be 2,350 acre-feet, much of this probably settled out over a large area in deposits too thin to be measured accurately by echo sounders.  
Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM PY WT
				TOTAL	NET							AC FT	TONS	
SABINE, RECHES, AND TRINITY RIVER BASINS														
51-1	Terrill City Lake.....	Kings Cr.....	Terrill, Tex.....	9.20	8.71	Dec 1949	28.25	---	241	59.2	0.95	2.49	3.211	---
51-2	Lower Barton Lake.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.91	0.82	Dec 1949	54	---	351	---	0.66	2.57	---	---
51-3	Shirley Lake.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.58	0.54	Dec 1949	69	---	312	---	0.71	2.39	---	---
51-4	Lake Dallas.....	Elm Cr. of Trinity R.....	Oreston, Tex.....	1.174	1.157	Dec 1938	10.5	---	154	13	0.72	1.13	1.304	---
51-5	Lake Halbach.....	Elm Cr.....	Corsicana, Tex.....	9.48 1/2	8.56	Dec 1949	28	---	845	67.4	0.60	5.66	8.308	---
51-6	Wagonella Creek.....	Trib of Elm Cr.....	Corsicana, Tex.....	0.59	0.43	Dec 1949	64	---	1,231	---	0.20	3.53	---	---
51-7	Wagonella Creek.....	Mountain Cr.....	Dallas, Tex.....	280	274.4	Nov 1946	9.7	---	134	---	2.86	3.91	---	---
51-8	White Rock.....	White Rock Cr.....	Dallas, Tex.....	99.1	97.1	Apr 1935	24	---	183	49	0.39	1.57	1.782	---
51-9	Grand Saline.....	Simmons Branch.....	Grand Saline, Tex.....	2.12	2.02	Apr 1937	13.25	---	256	38.7	0.21	0.82	691	---
51-10	T. P. P.....	Town Cr.....	Weatherford, Tex.....	6.24	6.18	Nov 1938	8.5	---	59 2/3	61	1.33	0.796	1.058	---
51-11	Lake Clark.....	Washachie Cr.....	Ennis, Tex.....	3.14	2.87	Dec 1950	3/2	---	664	50	0.36 2/3	2.60	2.831	---
51-12	Zero City.....	Cedar Cr.....	Cemo, Tex.....	1.46	1.42	Apr 1939	12.8	---	254	---	1.62	4.29	---	---
51-13	Variety Club Boys' Ranch Lake.....	Unnamed Trib.....	Perford, Tex.....	0.30	0.29	Apr 1950	7.8	---	127	---	1.68	2.21	---	---
51-14	Wills Point.....	Mahee Cr.....	Wills Point, Tex.....	1.83	1.75	Apr 1938	23.6	---	216	60.1	0.10	2.93	3.835	---
51-15	Prideport.....	W. Elm, Trinity R.....	Bridgeport, Tex.....	1.051	1.033	Feb 1942	10.8	---	278	---	0.18	0.785	---	---
51-16	Eagle Mountain.....	W. Elm, Trinity R.....	Ft. Worth, Tex.....	1.875	809 4/7	Mar 1929	5	---	113	---	0.61	1.44	---	---
51-17	Lake Erie.....	Unnamed Trib.....	Ft. Worth, Tex.....	1.05	1.01	Apr 1939	40	---	257	---	0.18	1.63	---	---
51-18	Wabank City Lake.....	Trib of Cedar Cr.....	Athens, Tex.....	0.36	0.33	Apr 1939	13	---	819	---	0.61	5.51	---	---
51-19	Wolf Creek.....	Wolf Cr.....	Palentine, Tex.....	2.55	2.50	Apr 1939	20	---	87	---	0.52	0.46	---	---
51-20	Elkins Lake.....	East Sandv Cr.....	Huntsville, Tex.....	3.18	3.05	Jul 1950	20	---	269	---	0.26	0.72	---	---
51-21	Hurnav Lake.....	S. Elm, Trinity R.....	Grandall, Tex.....	4.09	3.98	Apr 1939	16.5	---	97.1	60 *	3.95	3.94	5.150	---
LOWER BRAZOS, LOWER COLORADO, GUADALUPE, SAN ANTONIO, AND MIECES RIVER BASINS														
52-1	Lake Cornus Christi.....	Pueces R.....	Pathis, Tex.....	16.800	16.791	Mar 1942	7.6	---	3.24	34.9	2.57	0.083	63	---
52-2	Pedina Lake.....	Medina R.....	San Antonio, Tex.....	587	578	Jan 1937	23.9	---	467	35.6	2.03	0.066	51	---
52-3	Suchanan.....	Colorado R.....	Burnet, Tex.....	19,350 1/2	19,313	Feb 1941	3.7	---	50	75	0.098	0.463	619	---
52-4	Poss Ranch Stock Pond.....	So. Bull Cr.....	Llano, Tex.....	0.07	0.07	Feb 1941	32	---	1,017.262	---	0.93	0.41	720	---
52-5	Poss Ranch Stock Pond.....	L. Bull Cr.....	Llano, Tex.....	0.20	0.19	Feb 1941	38	---	67	---	0.42	0.21	---	---
52-6	Helms Tank.....	Trib of Sandv Cr.....	Llano, Tex.....	0.15	0.14	Feb 1941	25	---	46	---	0.11	0.043	---	---
BRAZOS RIVER BASIN (SOUTH BEND TO WASHINGTON) MIDDLE, AND COLORADO RIVER BASINS														
53-1	Lake Saraborough.....	Trib of Jim Ned Cr.....	Coleman, Tex.....	10.3	10.6	May 1940	17	---	199	51.41	0.40	0.81	907	---
53-2	Santa Anna Lake.....	Nud Cr.....	Santa Anna, Tex.....	1.17	1.05	Apr 1940	20.3	---	655	45.2	0.16	1.18	1,162	---
53-3	Lake Ennes.....	Perce Cr.....	Comanche, Tex.....	13.76	12.57	Dec 1946	23	---	95.4	---	0.35	0.334	---	---
53-4	Lake Kerritt.....	Prouse Cr.....	Geithwaite, Tex.....	11.65	11.50	May 1943	36	---	653 6/7	43	0.48	2.86	375	---
53-5	Hubbard City Lake #2.....	Trib of E. Cottonwood Cr.....	Hubbard, Tex.....	1.16	0.84	May 1943	32	---	227 1/2	---	0.38	1.95	---	---
53-6	Hubbard City Lake #4.....	F. Cottonwood Cr.....	Hubbard, Tex.....	1.05	0.51	May 1943	32	---	298	---	0.62	1.05	---	---
53-7	Hubbard City Lake #1.....	Trib of Little R.....	Hubbard, Tex.....	0.25	0.21	May 1943	51	---	8	---	1.90	5.68	---	---
53-8	Hubbard City Lake #3.....	Trib of E. Cottonwood Cr.....	Hubbard, Tex.....	0.03	0.03	May 1943	37	---	220 8/1	---	0.45	1.0	---	---
53-9	Hubbard City Lake #5.....	F. Cottonwood Cr.....	Hubbard, Tex.....	0.11	0.10	May 1943	24	---	1,210 8/1	---	0.25	3.0	---	---
53-10	Hubbard City Lake #5.....	Pedbank Cr.....	Hubbard, Tex.....	12	12.8	May 1943	30	---	407	---	0.67	3.0	---	---
53-11	Loneka Lake.....	Salt & Emory Cr.....	Loneka, Tex.....	4.74	4.60	Mar 1941	29	---	160	---	1.11	0.06	---	---
53-12	Veridian Lake.....	Bee Cr.....	Veridian, Tex.....	3.30	3.20	Mar 1941	29	---	219	---	0.12	0.20	---	---
53-13	Willer Lake.....	Trib of Horse Cr.....	San Saba, Tex.....	0.41	0.38	Apr 1941	14	---	202	---	0.59	0.69	---	---
53-14	Odell Lake.....	Unnamed Trib.....	Hubbard, Tex.....	0.56	0.55	Jul 1949	24	---	124	---	0.33	0.71	---	---
53-15	Possum Kinodum Lake.....	Prazer R.....	Graford, Tex.....	14,098 9/1	12,355	Feb 1949	7.75	---	900,000	51.8	1.25	1.71	---	---
53-16	Rock Crusher.....	Sachelor Cr.....	Coleman, Tex.....	16.5	16.48	Feb 1941	31	---	15	---	0.57	0.67	---	---
53-17	Old Santa Anna City L.....	Mikewater Cr.....	Santa Anna, Tex.....	0.90	0.87	Jun 1940	30.5	---	170	---	1.55	0.14	---	---
53-18	Old Coleman City L.....	Home Cr.....	Coleman, Tex.....	0.73	0.69	May 1940	23.6	---	396	---	0.74	1.31	---	---
53-19	Hamilton City Lake.....	Two Mile Cr.....	Hamilton, Tex.....	12	11.9	Mar 1941	17.75	---	51	---	0.16	0.67	---	---
53-20	Lake Leon.....	Leon R.....	Eastland, Tex.....	225	224.7	Mar 1941	20.75	---	7.3	---	0.46	0.24	---	---
53-21	Lake Leon.....	Leon R.....	Eastland, Tex.....	225	224.7	Mar 1941	20.75	---	7.3	---	1.06	0.08	---	---

53-22	Lake Mineral Wells,....	Rock Cr.....	Mineral Wells, Tex.,	74.4	73.4	Dec 1941	19.5	---	144	---	0.62	1.19	---
53-23	Buffalo Tank (Knox Tk)	Tri 16 of Pecan Bayou,...	Coleman, Tex.,.....	1.73	1.71	Feb 1941	41	---	15	---	0.31	0.056	---
53-24	Stock Pond.....	Tri 16 of Pecan Bayou,...	Coleman, Tex.,.....	2.6	2.58	Feb 1941	3.7	---	---	---	8.45	0.66	---
53-25	J. S. Wall Stock Pond.	Tri 16 of Brady Cr.....	Brady, Tex.,.....	0.35	0.35	Mar 1941	14	---	37	---	0.43	0.16	---
53-26	White Tank,.....	Tri 16 of Pecan Bayou,...	Brownwood, Tex.,....	0.80	0.80	Mar 1941	4.8	---	---	---	4.22	0.24	---
53-27	Zimmerlee Stk. Pond (W)	Tri 16 of Jim Ned Cr.,...	Lawn, Tex.,.....	0.13	0.13	Feb 1941	25	---	---	---	1.16	0.10	---
53-28	Stith Lake,.....	Redbank Cr.....	Lawn, Tex.,.....	1.04	1.01	Mar 1941	14.6	---	---	---	0.62	0.63	---
53-29	Philoeo Lake,.....	Paint Cr.....	Pioneer, Tex.,.....	3.04	9.00	Feb 1941	15.9	---	20	---	6.35	0.07	---
53-30	Lake Brownwood,....	Pecan Bayou,.....	Brownwood, Tex.,....	1.544	1.532	Aug 1934	2.1	207,030	96	---	0.14	0.135	265
				1.544	1.532	Feb 1940	7.6	175,620	96	55	6.39	0.380	460
				1.544	1.532	Aug 1948	16.1	156,030	96	53	0.49	0.475	569
53-31	Lake Waco,.....	Bosque R.,.....	Waco, Tex.,.....	1.666	1.662	Aug 1935	4.9	267,300	23.6	58.5*	2.93	0.695	666
				1.666	1.662	Feb 1936	5.9	321,900	23.6	58.5*	3.35	0.794	1,012
				1.666	1.662	Dec 1947	17.7	407,200	23.6	58.5*	2.49	0.590	752

# UPPER BRAZOS AND UPPER COLORADO RIVER BASIN

54-1	Lake Abilene,.....	Elm Cr.,.....	Abilene, Tex.,.....	98.5	97.5	Sep 1948	27	---	105	60*	0.19	0.21	274
54-2	Lake Nasworthy,....	S. Concho R.,.....	San Angelo, Tex.,...	3,294	3,292	Dec 1936	6.2	---	---	---	1.26	0.044	64.7
54-3	Lake Sweetwater,....	Bitter Cr.,.....	Sweetwater, Tex.,...	110	108.8	Dec 1941	11.8	---	126	---	0.32	6.41	---
54-4	Lake Kirby,.....	Cedar Cr.,.....	Abilene, Tex.,.....	44	42.8	Nov 1941	13.2	---	185	---	0.46	0.91	---

# RIO GRANDE BASIN (BELOW EAGLE PASS)

# RIO GRANDE BASIN (FORT OULTMAN TO EAGLE PASS) AND LOWER PECOS RIVER BASIN

# RIO GRANDE BASIN (ESPANOLA TO FORT OULTMAN)

57-1	Elephant Butte,.....	Rio Grande,.....	Hot Springs, N. Mex.,	25,923	25,666	Dec 1916	1.9	1,573,665	102	---	0.998	1.02	---
				25,923	25,666	Aug 1920	5.6	1,463,305	102	---	0.822	0.939	---
				25,923	25,666	Aug 1925	10.6	1,306,250	102	---	0.881	0.895	---
				25,923	25,666	Apr 1935	20.3	1,068,616	102	60*	621	10/ 15,900	11/
				25,923	25,666	Oct 1940	25.8	1,058,164	102	---	0.611	0.623	11/
				25,923	25,666	Apr 1947	32.3	1,077,623	102	---	0.512	0.523	182 13,300

# UPPER PECOS RIVER BASIN

58-1	Bonito,.....	Bonito Cr., Kraut Gul.	Capitan, New Mex.,...	40	39.9	Sep 1940	9	---	29.5	---	0.28	0.063	---
58-2	Alamogordo,.....	Pecos R.,.....	Guadalupe, New Mex.,	4,383	3,749	Sep 1940	3.25	175,500	41.81	---	2.98	0.876	1,416 20,950
				4,383	3,749	Oct 1943	6.33	---	---	---	---	---	---
				4,383	3,749	Apr 1944	6.83	196,372	41.81	---	2.50	0.960	1,537 15,120
58-3	Lake Avalon,.....	Pecos R.,.....	Carlsbad, New Mex.,...	18,070	1,080	1941	36	272,400	---	65*	15.9	0.032	59.8 174.3

1/ Excludes area above 2 lakes in watershed which contribute occasional flow to Lake Halbert.

2/ Spillway crest was raised 2 ft. in 1939 to elev. 1092. Area capacity and c/v ratio are of 1092 elev.

3/ Lake Clark was built in 1940 downstream from Remits New Lake, or "Club Lake," which was built in 1695. Lake Clark spillway is 2 ft. higher than Club Lake, thus submersing Club Lake and small pond.

4/ Data is based on combined drainage area, surface area, capacity and sediment volume of all lakes in the system.

5/ Excludes drainage area of Bridgeport Res., which lies upstream from Eagle Mt. Res.

6/ Drainage area is 31,250 sq. mi., of which 11,900 sq. mi. is non-contributing.

7/ Dam was raised in 1925 and 1949. Capacity based on 1949 level.

8/ Dam was raised in 1925 and 1949. Capacity based on 1925 level.

9/ Includes 1,111 sq. mi. of practically contributing area above other lakes. Excludes 6,950 sq. mi. of non-contributing area at head of watershed.

10/ Based on computations for period, figures representing total to date are 1935; 307 and 1947; 751

11/ Represents total to date figures.

\* Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
UPPER PECOS RIVER BASIN (Cont'd)														
58-4	Lake McMillan.....	Pecos R.....	Carlsbad, New Mex.....	16,985	12,600	Jun 1901	10.42	---	5.35	---	1.769	0.1218	134.2	---
	.....00.....	.....00.....	.....00.....	16,985	12,600	Nov 1910	16.84	---	5.35	---	1.85	0.1320	455	---
	.....00.....	.....00.....	.....00.....	16,985	12,600	May 1915	21.32	334,000	5.35	---	2.34	0.1667	272	45,250
	.....00.....	.....00.....	.....00.....	16,985	12,600	Dec 1932	39.00	289,000	5.35	---	1.426	0.1019	166.2	9,410
	.....00.....	.....00.....	.....00.....	16,985	12,600	Jan 1940	46.36	273,500	5.35	75	1.247	0.0900	147	7,840
COLORADO RIVER BASIN (RELDN HOOVER DAM) Williams & Lower Gila River Basins														
GILA RIVER BASIN														
60-1	Lake Pleasant.....	Agua Fria R.....	Phoenix, Ariz.....	1,450	1,444	Feb 1941	12.9	---	127	---	0.34	0.432	---	---
60-2	San Carlos (Coolidge 0.)	Gila R.....	Globe, Ariz.....	12,900	11,900	Feb 1935	6.28	279,078	98.25	70*	0.43	0.456	635	1.55
	.....00.....	.....00.....	.....00.....	12,900	11,900	Jan 1937	8.19	255,900	98.25	---	0.35	0.371	566	1.72
60-3	.....00.....	.....00.....	.....00.....	12,900	11,900	Jan 1947	18.19	255,118	98.25	---	0.25	0.266	406	1.24
	Stock Tank No. 16.....	Butler Wash.....	Flen, Ariz.....	0.69	0.69	1941	5.2	---	16.6	---	10.6	1.75	---	---
60-4	Roosevelt-Salt R. Proj.	Salt R. and Tomlin Cr.	Globe, Ariz.....	5,760	5,760	Oct 1914	5.67	680,150	264.27	70*	0.309	0.819	1,246.65	7,779.45
	.....00.....	.....00.....	.....00.....	5,760	5,760	Dec 1916	7.54	1,074,849	264.27	70*	0.540	1.429	2,176.65	8,590.45
	.....00.....	.....00.....	.....00.....	5,760	5,760	Sep 1925	16.44	922,349	264.27	70*	0.385	1.016	1,552.04	7,132.04
	.....00.....	.....00.....	.....00.....	5,760	5,760	Jan 1935	23.77	818,052	264.27	70*	0.266	0.702	1,070.27	5,945.12
	.....00.....	.....00.....	.....00.....	5,760	5,760	Jan 1939	23.77	807,544	264.27	70*	0.273	0.722	1,100.76	5,776.47
.....00.....	.....00.....	.....00.....	5,760	5,760	Jan 1946	36.77	793,732	264.27	70*	0.251	0.684	1,012.33	5,405.95	
LITTLE COLORADO AND SAN JUAN RIVER BASINS														
COLORADO RIVER BASIN (HALLS CROSSING TO HOOVER DAM) Virgin River Basin														
COLORADO RIVER BASIN (ABOVE HALLS CROSSING) Gunnison, Dolores and Fremont River Basins														
GREEN RIVER BASIN														

59-

61

62

63

64



# CREAT SALT LAKE BASIN

## SEVIER RIVER BASIN

66-1	Rocky Mts.	Beckhole Cr.	Koshore, Utah	5	4.9	Oct 1940	72	---	121	---	0.02	0.02N	---
66-2	Indian Creek, W. I.	Indian Cr.	Beaver, Utah	12	11.55	Nov 1940	42	---	46.5	---	0.14	0.1036	---
66-3	Rocky Ford	Beaver R.	Beaver, Utah	506	506	Nov 1940	23.6	---	45.8	---	0.29	0.34	---
66-4	Rocky Ford	Sevier R.	Salt Lake, Utah	900	900	Nov 1940	47	---	2.35	---	1.25	0.0238	---
66-5	Shimshak	Salt Lake Cr.	Salt Lake, Utah	26	9.42	Nov 1940	47	---	36.7	---	6.76	0.358	---
66-6	Enterprise	Pine Cr.	Enterprise, Utah	25	23.4	Nov 1940	31	---	337	---	0.16	0.160	---
66-7	Yankee Meadows	Palm Cr.	Parowan, Utah	7	24.65	Nov 1940	44	---	33.3	---	0.89	0.106	---
66-8	Phite	Sevier R.	Parowan, Utah	2,440	2,440	Nov 1940	46	---	48.8	---	0.32	0.106	---
66-9	Sevier Bridge	Sevier R.	Maple, Utah	5,120	1,089	1932	24	---	---	---	0.26	0.394	---

## CREAT BASIN (NORTHERN PART IN CALIF., NEV., AND OREGON)

67

## CREAT BASIN Humboldt, Carson, and Truckee River Basins

68-1	Willow Creek	Willow Cr.	Elko, Nev.	112	111	Sen 1939	15	---	137	---	0.11	0.15	---
------	--------------	------------	------------	-----	-----	----------	----	-----	-----	-----	------	------	-----

## CREAT BASIN Owens, Walker, and Mono Lake Drainages

69-1	Weber	Walker	Shurz, Nev.	2,600 f	2,440	Seo 1939	4	---	4.7	---	0.42	0.02	---
------	-------	--------	-------------	---------	-------	----------	---	-----	-----	-----	------	------	-----

## SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND CREAT BASIN DRAINAGE

70-1	Fullerton F. C. Basin.	Fullerton Cr.	Brea, Calif.	3.05	2.95	Nov 1944	3.1	310	247	---	0.45	1.15	---
70-2	Lake Mojave	San Diego Cr.	Escondido, Calif.	303	301	Jul 1935	16.5	29,656	121	65*	0.30	0.365	---
70-3	Railroad Canyon	San Jacinto R.	Elsinore, Calif.	303	651	Jun 1939	29.5	38,395	121	---	0.29	0.352	3,580
70-4	Lake Sherwood	Triunfo Cr.	Hollywood, Calif.	16	15.7	Mar 1936	31	---	17	60*	0.14	0.03	---
70-5	Stone Canyon	Stone Canyon Cr.	Sawtelle, Calif.	16	15.7	Mar 1936	31	---	179	---	0.09	0.16	---
70-6	Bonita Canyon	Bonita Cr.	Orange, Calif.	1.36	1.16	Jun 1939	18.1	---	179	---	0.10	0.19	---
70-7	Bouquet Canyon	Bouquet Cr.	San Fernando, Calif.	12.6	4.00	Jun 1939	2	---	5,881	60*	0.033	3.058	---
70-8	Chatsworth	Trib of Los Angeles R.	San Fernando, Calif.	5.4	4.45	Jun 1939	21	---	2,697	60*	3.22	2.63	3,437
70-9	Lake Menet	Trib of Newport Bay	Menet, Calif.	66	65.3	Jun 1940	48	---	2,275	40*	0.02	0.51	---
70-10	Laquina	Encino Cr.	Orange, Calif.	0.75	0.72	Jun 1939	2	---	212	75*	0.34	0.73	---
70-11	Fairmont	Antelope Valley	Los Angeles, Calif.	1.42	1.30	Jun 1939	16	---	365	40*	1.46	5.26	4,640
70-12	Little Rock	Little Rock Cr.	Lancaster, Calif.	2.64	2.37	Jun 1939	26	---	2,274	40*	0.03	0.815	---
70-13	Live Oak	Live Oak Cr.	Pasadena, Calif.	66	66	Jun 1936	11	---	2,636	---	0.05	1.53	---
70-14	Morena	Morena Cr.	San Diego, Calif.	112	109.4	Jun 1948	38.3	---	62	85*	0.17	0.10	---
70-15	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.96	0.60	---
70-16	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	1.01	0.63	---
70-17	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.93	0.58	---
70-18	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.24	0.26	---
70-19	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.53	0.57	---
70-20	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.35	2.16	---
70-21	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.31	1.67	---
70-22	Prado	Prado Cr.	Corona, Calif.	2,284	2,250	May 1941	1	---	62	---	0.23	0.231	---

\* Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES FEET	INITIAL CAPACITY - WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC ET	TONS	
SALTION SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Cont'd)														
70-17	Lockingbird Canyon	Lockingbird Canyon...	Arlington, Calif....	11.5	11.5	Mar 1940	26	---	86	60*	0.15	0.130	---	---
70-18	Hansen F.C. Reservoir	Tujunga Cr.	San Fernando, Calif.	147	146 1/2	Oct 1941	0.8	93,800	244	---	1.66	4.1	---	---
				147	146 1/2	Oct 1943	3.1	53,870	---	---	1.59	3.9	---	---
				147	146 1/2	Nov 1945	5.2	50,720	---	---	1.29	3.2	---	---
70-19	Area F.C. Reservoir	Fullerton, Calif....	Fullerton, Calif....	23.4	23.1	Oct 1949	7.5	551	178	---	0.41	0.41	---	---
70-20	San Gabriel Dam #2	San Gabriel R.	Azusa, Calif....	39.2	39.0	Jan 1936	0.8	3,400	329	---	2.7	18.7	---	---
				39.2	39.0	Nov 1938	3.0	32,530	---	---	5.4	17.6	---	---
				39.2	39.0	Nov 1939	4.6	25,630	---	---	3.5	19.7	---	---
				39.2	39.0	Nov 1940	5.6	22,170	---	---	2.9	19.6	---	---
				39.2	39.0	Nov 1941	6.6	28,200	---	---	2.7	19.6	---	---
				39.2	39.0	Oct 1943	8.5	26,370	---	---	2.5	19.6	---	---
				39.2	39.0	Oct 1945	9.7	29,700	329	---	2.2	19.6	---	---
				39.2	39.0	Oct 1946	11.4	27,270	329	---	1.8	19.6	---	---
70-21	San Gabriel Dam #1	San Gabriel R.	Azusa, Calif....	203	242 3/4	Oct 1938	0.9	341,500	---	---	1.7	28.3	---	---
				203	242 3/4	Nov 1940	3.0	155,800	---	---	4.4	9.65	---	---
				203	242 3/4	Oct 1942	3.8	202,800	---	---	3.7	8.13	---	---
				203	242 3/4	Oct 1944	4.8	171,300	---	---	3.0	6.53	---	---
				203	242 3/4	Oct 1946	5.8	186,300	---	---	3.0	6.63	---	---
				203	242 3/4	Nov 1948	6.9	184,200	---	---	3.0	6.63	---	---
				203	242 3/4	Nov 1950	7.9	172,900	---	---	2.2	4.9	---	---
70-22	Morris Dam	San Gabriel R.	Azusa, Calif....	203	242 3/4	Nov 1951	13.9	145,600	---	---	1.7	3.74	---	---
				211.3	210.7	Jan 1936	2.1	55,752	---	---	1.3	2.93	---	---
				211.3	210.7	Feb 1938	4.2	80,638	---	---	0.76	1.41	---	---
				211.3	210.7	Oct 1938	4.9	124,069	---	---	1.30	2.42	---	---
				211.3	210.7	Dec 1939	16.1	99,557	92	---	1.38	2.58	---	---
70-23	San Dimas Reservoir	San Dimas Wash.	San Dimas, Calif....	16.2	16.1	Dec 1935	13.2	6,900	---	---	0.62	0.58	---	---
				16.2	16.1	Oct 1938	16.1	5,690	---	---	1.42	1.32	---	---
				16.2	16.1	Nov 1939	17.1	5,080	---	---	1.35	1.24	---	---
				16.2	16.1	Oct 1941	19.2	5,080	---	---	1.46	1.35	---	---
				16.2	16.1	Oct 1943	21.1	5,600	---	---	1.48	1.37	---	---
				16.2	16.1	Nov 1944	22.1	5,650	---	---	2.9	1.68	---	---
70-24	Purdingstone Diversinn	San Dimas Cr.	San Dimas, Calif....	18.8	18.8	Mar 1936	6.2	6,760	79	---	8.0	14.2	---	---
				18.8	18.8	Nov 1939	10.1	4,180	---	---	---	---	---	---
				18.8	18.8	Oct 1942	13.0	3,540	---	---	---	---	---	---
				18.8	18.8	Nov 1944	15.0	4,110	---	---	---	---	---	---
70-25	Purdingstone Dam	Purdingstone Cr.	San Dimas, Calif....	32.2	11.0	Jan 1941	13.0	2,040	540	---	0.092	1.45	---	---
70-26	Rio Dalton	Rio Dalton Cr.	Glendora, Calif....	4.5	4.5	Mar 1931	1.7	53	265	---	7.64	20.3	---	---
				4.5	4.5	Jan 1935	5.0	266	---	---	2.60	6.89	---	---
				4.5	4.5	Mar 1938	8.1	833	---	---	2.47	6.56	---	---
				4.5	4.5	Mar 1943	13.6	1,040	---	---	1.57	4.17	---	---
70-27	Rio Santa Anita	Santa Anita R.	Arcadia, Calif....	10.8	10.8	Feb 1935	7.9	1,958	127	---	1.47	3.90	---	---
				10.8	10.8	Feb 1936	8.9	2,017	---	---	2.83	3.61	---	---
				10.8	10.8	Jul 1938	11.3	3,839	---	---	2.96	3.77	---	---
				10.8	10.8	Feb 1940	12.9	3,778	---	---	4.52	5.64	---	---
				10.8	10.8	Feb 1942	14.9	4,451	---	---	3.87	4.94	---	---
				10.8	10.8	Mar 1943	16.0	5,162	---	---	3.76	4.81	---	---
				10.8	10.8	Mar 1945	16.5	5,225	---	---	3.65	4.66	---	---
				10.8	10.8	May 1947	17.2	5,157	---	---	3.51	4.47	---	---
70-28	Rio Tujunga Dam	Rio Tujunga Cr.	Sunland, Calif....	82.3	82.2	May 1938	6.9	18,350	76	---	3.03	3.86	---	---
				82.3	82.2	Oct 1939	8.4	16,660	---	---	3.50	2.65	---	---
				82.3	82.2	Feb 1940	8.7	16,570	---	---	3.35	2.54	---	---
				82.3	82.2	Jul 1941	10.2	20,090	---	---	2.80	2.45	---	---
				82.3	82.2	Feb 1943	11.7	20,710	---	---	2.98	2.26	---	---
				82.3	82.2	Apr 1943	11.9	22,000	---	---	3.12	2.37	---	---
				82.3	82.2	Jun 1944	13.0	23,600	---	---	3.06	2.33	---	---
				82.3	82.2				---	---	2.80	2.13	---	---

70-29	Devil's Gate.....	Arroyo Seco.....	Pasadena, Calif.....	31.9	31.9	Jun 1933	13.0	---	14+	---	0.08	2/	0.11
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jun 1933	14.2	---	---	---	0.73	2/	1.05
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jan 1935	14.5	---	---	---	0.91	2/	1.31
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jun 1938	18.0	---	---	---	1.97	2/	2.85
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jan 1942	21.6	---	---	---	1.88	2/	2.72
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jan 1943	22.6	---	---	---	2.02	2/	2.91
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jan 1948	28.3	---	---	---	1.61	2/	2.32
70-30	Eaton Wash.....	Eaton Wash.....	Pasadena, Calif.....	31.9	31.9	Feb 1937	1	---	101	---	1.15	2/	1.17
	.....00.....	.....00.....	.....00.....	31.9	31.9	Mar 1938	2.3	---	---	---	1.17	2/	1.93
	.....00.....	.....00.....	.....00.....	31.9	31.9	Oct 1938	2.9	---	---	---	9.3	2/	9.46
	.....00.....	.....00.....	.....00.....	31.9	31.9	Oct 1940	4.7	---	---	---	5.74	2/	5.84
	.....00.....	.....00.....	.....00.....	31.9	31.9	Aug 1941	5.5	---	---	---	5.48	2/	5.57
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jun 1942	6.3	---	---	---	4.78	2/	4.86
	.....00.....	.....00.....	.....00.....	31.9	31.9	Oct 1943	7.7	---	---	---	5.13	2/	5.22
	.....00.....	.....00.....	.....00.....	31.9	31.9	Oct 1944	8.7	---	---	---	4.84	2/	4.93
	.....00.....	.....00.....	.....00.....	31.9	31.9	Oct 1946	10.7	---	---	---	3.94	2/	4.01
	.....00.....	.....00.....	.....00.....	31.9	31.9	May 1947	11.3	---	---	---	3.85	2/	3.92
	.....00.....	.....00.....	.....00.....	31.9	31.9	Jun 1950	14.4	---	---	---	3.02	2/	3.07
70-31	Pacoima Cr.....	Pacoima Cr.....	San Fernando, Calif.....	28.2	28.2	Jan 1936	6.3	---	215	---	1.23	2/	2.63
	.....00.....	.....00.....	.....00.....	28.2	28.2	Mar 1938	8.4	---	---	---	2.07	2/	4.46
	.....00.....	.....00.....	.....00.....	28.2	28.2	Oct 1942	12.9	---	---	---	1.56	2/	3.36
	.....00.....	.....00.....	.....00.....	28.2	28.2	Dec 1944	14.9	---	---	---	1.49	2/	3.20
70-32	Santiago Dam.....	Santiago Cr.....	Villa Park, Calif.....	63	62.1	Dec 1944	16.8	---	397	---	0.04	2/	0.15
70-33	Sawoit.....	Sawoit R.....	Monrovia, Calif.....	3.3	3.3	Oct 1935	8.3	---	144	---	2.21	2/	3.38
	.....00.....	.....00.....	.....00.....	3.3	3.3	May 1938	10.9	---	---	---	2.05	2/	3.33
	.....00.....	.....00.....	.....00.....	3.3	3.3	May 1941	13.9	---	---	---	2.35	2/	3.39
	.....00.....	.....00.....	.....00.....	3.3	3.3	Dec 1943	15.5	---	---	---	0.40	2/	3.46
70-34	Sierra Madre Dam.....	Lt. Santa Anita Cr.....	Sierra Madre, Calif.....	2.39	2.39	Feb 1930	2.0	---	21	---	1.05	2/	0.31
	.....00.....	.....00.....	.....00.....	2.39	2.39	Nov 1933	4.0	---	---	---	1.88	2/	0.56
	.....00.....	.....00.....	.....00.....	2.39	2.39	Jan 1944	15.8	---	---	---	1.39	2/	0.42
	.....00.....	.....00.....	.....00.....	2.39	2.39	Oct 1944	16.7	---	---	---	2.33	2/	0.45
70-35	Thomson Creek Dam.....	Thomson Cr.....	Claremont, Calif.....	3.5	3.5	Oct 1932	4.5	---	198	---	1.58	2/	3.2
	.....00.....	.....00.....	.....00.....	3.5	3.5	Jan 1943	11.8	---	---	---	0.78	2/	3.5
70-36	Aliso Wilbur Dam, R.....	Aliso Canyon.....	Northridge, Calif.....	8.63	8.63	Nov 1943	2	---	---	---	3.17	2/	3.17
	.....00.....	.....00.....	.....00.....	8.63	8.63	Dec 1945	3	---	---	---	2.17	2/	2.94
	.....00.....	.....00.....	.....00.....	8.63	8.63	Dec 1945	4	---	---	---	1.71	2/	1.88
	.....00.....	.....00.....	.....00.....	8.63	8.63	Dec 1947	5	---	---	---	1.61	2/	1.68
	.....00.....	.....00.....	.....00.....	8.63	8.63	Dec 1948	6	---	---	---	1.48	2/	1.48
	.....00.....	.....00.....	.....00.....	8.63	8.63	Dec 1949	7	---	---	---	1.31	2/	1.31
70-37	Altadena Debris Basin.....	Rubio R.....	Altadena, Calif.....	0.65	0.65	Dec 1947	1	---	---	---	1.16	2/	1.16
	.....00.....	.....00.....	.....00.....	0.65	0.65	Dec 1948	2	---	---	---	1.34	2/	1.34
	.....00.....	.....00.....	.....00.....	0.65	0.65	Dec 1949	3	---	---	---	1.63	2/	1.63
	.....00.....	.....00.....	.....00.....	0.65	0.65	Dec 1950	4	---	---	---	1.54	2/	1.54
79-38	Railley Debris Basin.....	Sailey R.....	Sierra Madre, Calif.....	0.57	0.57	Dec 1946	1	---	---	---	1.55	2/	1.55
	.....00.....	.....00.....	.....00.....	0.57	0.57	Dec 1947	2	---	---	---	0.42	2/	0.42
	.....00.....	.....00.....	.....00.....	0.57	0.57	Dec 1948	3	---	---	---	0.28	2/	0.28
	.....00.....	.....00.....	.....00.....	0.57	0.57	Dec 1949	4	---	---	---	0.21	2/	0.21
	.....00.....	.....00.....	.....00.....	0.57	0.57	Dec 1950	5	---	---	---	0.18	2/	0.18
70-39	Brand Debris Basin.....	Brand R.....	LaCanada, Calif.....	1.03	1.03	Dec 1940	5	---	---	---	0.58	2/	0.58
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1941	6	---	---	---	0.53	2/	0.53
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1942	7	---	---	---	0.50	2/	0.50
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1943	8	---	---	---	0.68	2/	0.68
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1944	9	---	---	---	0.62	2/	0.62
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1945	10	---	---	---	0.56	2/	0.56
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1946	11	---	---	---	0.50	2/	0.50
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1947	12	---	---	---	0.48	2/	0.48
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1948	13	---	---	---	0.44	2/	0.44
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1949	14	---	---	---	0.41	2/	0.41
	.....00.....	.....00.....	.....00.....	1.03	1.03	Dec 1950	15	---	---	---	0.38	2/	0.38
70-40	Dunsmuir Debris Basin.....	Dunsmuir R.....	Tunijuna, Calif.....	0.84	0.84	Dec 1938	1	---	---	---	0.69	2/	0.69
	.....00.....	.....00.....	.....00.....	0.84	0.84	Dec 1939	2	---	---	---	19.5	2/	19.5
	.....00.....	.....00.....	.....00.....	0.84	0.84	Dec 1940	3	---	---	---	13.9	2/	13.9
	.....00.....	.....00.....	.....00.....	0.84	0.84	Dec 1941	4	---	---	---	12.0	2/	12.0
	.....00.....	.....00.....	.....00.....	0.84	0.84	Dec 1942	5	---	---	---	10.8	2/	10.8
	.....00.....	.....00.....	.....00.....	0.84	0.84	Dec 1943	6	---	---	---	9.77	2/	9.77

Continued on Next Page

1/ Practically all sediment inflow is passed downstream by sluicing operations.

2/ Deposition, if any, in years of sluicing is not included in the summation.

3/ Includes San Gabriel Dam #2 drainage area as sediment is sluiced into San Gabriel Dam #1 drainage area.

4/ Debris excavated at various times.

\* Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN AC FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	
SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (CONT'D)														
70-40 (Cont'd)	Dunsmuir Debris Basin.	Dunsmuir R.	Tijuna, Calif.	0.84	C.84	Sep 1946	11	---	---	---	---	9.17	---	---
				0.84	0.84	Sep 1947	12	---	---	---	---	8.50	---	---
				0.84	0.84	Sep 1948	13	---	---	---	---	7.85	---	---
				0.84	0.84	Sep 1949	14	---	---	---	---	7.29	---	---
70-41	Eagle Debris Basin.	Eagle R.	La Crescenta, Calif.	0.84	0.84	Sep 1950	15	---	---	---	---	6.80	---	---
				0.61	0.61	Sep 1951	2	---	---	---	---	21.2	---	---
				0.61	0.61	Sep 1952	3	---	---	---	---	18.0	---	---
				0.61	0.61	Sep 1953	5	---	---	---	---	13.6	---	---
				0.61	0.61	Sep 1941	5	---	---	---	---	11.4	---	---
				0.61	0.61	Sep 1942	6	---	---	---	---	12.0	---	---
				0.61	0.61	Sep 1943	7	---	---	---	---	11.1	---	---
				0.61	0.61	Sep 1944	8	---	---	---	---	9.98	---	---
				0.61	0.61	Sep 1945	9	---	---	---	---	9.05	---	---
				0.61	0.61	Sep 1947	11	---	---	---	---	8.26	---	---
70-42	Fairbanks Debris Basin.	Fairbanks R.	Altadena, Calif.	0.61	0.61	Sep 1943	13	---	---	---	---	7.59	---	---
				0.61	0.61	Sep 1944	14	---	---	---	---	7.00	---	---
				0.61	0.61	Sep 1950	14	---	---	---	---	6.49	---	---
				0.21	0.21	Sep 1950	1	---	---	---	---	46.4	---	---
				0.21	0.21	Sep 1950	3	---	---	---	---	47.1	---	---
				0.21	0.21	Sep 1941	6	---	---	---	---	25.6	---	---
				0.21	0.21	Sep 1943	6	---	---	---	---	20.4	---	---
				0.21	0.21	Sep 1944	9	---	---	---	---	16.1	---	---
				0.21	0.21	Sep 1945	10	---	---	---	---	16.5	---	---
				0.21	0.21	Sep 1947	11	---	---	---	---	15.2	---	---
70-43	Fern Debris Basin.	Fern R.	Alhambra, Calif.	0.21	0.21	Sep 1947	12	---	---	---	---	14.1	---	---
				0.21	0.21	Sep 1948	13	---	---	---	---	13.0	---	---
				0.21	0.21	Sep 1949	14	---	---	---	---	12.1	---	---
				0.21	0.21	Sep 1950	15	---	---	---	---	11.3	---	---
				0.30	0.30	Sep 1950	1	---	---	---	---	31.2	---	---
				0.30	0.30	Sep 1950	3	---	---	---	---	38.0	---	---
				0.30	0.30	Sep 1941	6	---	---	---	---	20.6	---	---
				0.30	0.30	Sep 1942	7	---	---	---	---	17.7	---	---
				0.30	0.30	Sep 1945	8	---	---	---	---	16.2	---	---
				0.30	0.30	Sep 1944	9	---	---	---	---	15.9	---	---
70-44 70-45	Gould Debris Basin.	Gould R.	La Canada, Calif.	0.30	0.30	Sep 1945	10	---	---	---	---	14.3	---	---
				0.30	0.30	Sep 1946	11	---	---	---	---	15.5	---	---
				0.30	0.30	Sep 1947	12	---	---	---	---	13.2	---	---
				0.30	0.30	Sep 1948	13	---	---	---	---	12.2	---	---
				0.30	0.30	Sep 1949	14	---	---	---	---	11.3	---	---
				0.30	0.30	Sep 1950	15	---	---	---	---	10.5	---	---
				0.47	0.47	Sep 1950	3	---	---	---	---	0	---	---
				1.53	1.53	Sep 1950	5	---	---	---	---	6.93	---	---
				1.53	1.53	Sep 1940	5	---	---	---	---	5.10	---	---
				1.53	1.53	Sep 1941	6	---	---	---	---	5.10	---	---
70-46	Hall's Debris Basin.	Hall-Beckley R.	La Canada, Calif.	1.53	1.53	Sep 1943	9	---	---	---	---	4.88	---	---
				1.53	1.53	Sep 1944	8	---	---	---	---	4.73	---	---
				1.53	1.53	Sep 1944	9	---	---	---	---	4.52	---	---
				1.53	1.53	Sep 1945	10	---	---	---	---	4.10	---	---
				1.53	1.53	Sep 1946	11	---	---	---	---	3.80	---	---
				1.53	1.53	Sep 1947	12	---	---	---	---	3.50	---	---
				1.53	1.53	Sep 1948	13	---	---	---	---	3.25	---	---
				1.53	1.53	Sep 1949	14	---	---	---	---	3.04	---	---
				0.84	0.84	Sep 1950	15	---	---	---	---	17.3	---	---
				0.84	0.84	Sep 1937	2	---	---	---	---	15.5	---	---





# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRE FEET	INITIAL CAPACITY-WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PEP CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT	
				TOTAL	NET							AC. FT	TONS		
SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Cont'd)															
70-55	Shields Debris Basin...	Shields R. ....	LaCrescenta, Calif. ....	0.27	0.27	Sep 1938	1	---	---	---	---	77.0	---	---	
				0.27	0.27	Sep 1939	2	---	---	---	---	43.7	---	---	
				0.27	0.27	Sep 1941	4	---	---	---	---	27.1	---	---	
				0.27	0.27	Sep 1943	6	---	---	---	---	20.1	---	---	
				0.27	0.27	Sep 1944	7	---	---	---	---	17.5	---	---	
70-56	Shover Debris Basin...	Shover R. ....	LaCrescenta, Calif. ....	0.27	0.27	Sep 1945	8	---	---	---	---	15.4	---	---	
				0.27	0.27	Sep 1946	9	---	---	---	---	13.8	---	---	
				0.27	0.27	Sep 1947	10	---	---	---	---	12.4	---	---	
				0.27	0.27	Sep 1948	11	---	---	---	---	11.3	---	---	
				0.27	0.27	Sep 1949	12	---	---	---	---	10.4	---	---	
70-57	Snarr Debris Basin...	Snarr Canyon...	Montrose, Calif. ....	0.27	0.27	Sep 1950	13	---	---	---	---	9.56	---	---	
				0.23	0.23	Sep 1938	2	---	---	---	---	22.6	---	---	
				0.23	0.23	Sep 1939	3	---	---	---	---	34.0	---	---	
				0.23	0.23	Sep 1941	5	---	---	---	---	22.2	---	---	
				0.23	0.23	Sep 1943	7	---	---	---	---	18.3	---	---	
70-58	Stough Debris Basin...	Stough R. ....	Burbank, Calif. ....	0.84	0.84	Sep 1947	1	---	---	---	---	---	---	---	
				0.84	0.84	Sep 1948	2	---	---	---	---	---	---	---	---
				0.84	0.84	Sep 1949	3	---	---	---	---	---	---	---	---
				0.84	0.84	Sep 1950	4	---	---	---	---	---	---	---	---
				1.65	1.65	Sep 1943	3	---	---	---	---	4.22	---	---	---
70-59	Sunset Canyon D. Basin	Sunset Canyon Cr. ....	Burbank, Calif. ....	1.65	1.65	Sep 1944	4	---	---	---	---	3.88	---	---	
				1.65	1.65	Sep 1945	5	---	---	---	---	3.45	---	---	
				1.65	1.65	Sep 1946	6	---	---	---	---	2.88	---	---	
				1.65	1.65	Sep 1947	7	---	---	---	---	2.47	---	---	
				1.65	1.65	Sep 1949	10	---	---	---	---	1.73	---	---	
70-60	Vanalden Debris Basin...	Vanalden R. ....	Encino, Calif. ....	0.44	0.44	Sep 1950	15	---	---	---	---	1.34	---	---	
				0.44	0.44	Sep 1942	13	---	---	---	---	1.27	---	---	
				0.44	0.44	Sep 1944	15	---	---	---	---	1.20	---	---	
				0.44	0.44	Sep 1945	16	---	---	---	---	1.14	---	---	
				0.44	0.44	Sep 1946	17	---	---	---	---	0.33	---	---	
70-61	Vardugo Debris Basin...	Vardugo Cr. ....	Montrose, Calif. ....	1.08	1.08	Sep 1950	21	---	---	---	---	0.32	---	---	
				1.08	1.08	Sep 1947	1	---	---	---	---	0.18	---	---	
				1.08	1.08	Sep 1949	2	---	---	---	---	0.06	---	---	
				15.3	15.3	Sep 1950	5	---	---	---	---	2.16	---	---	
				15.5	15.5	Sep 1941	6	---	---	---	---	1.98	---	---	
70-62	Warri Debris Basin...	Warri P. ....	LaCrescenta, Calif. ....	10.	10.	Sep 1943	5	---	---	---	---	2.34	---	---	
				10.	10.	Sep 1944	6	---	---	---	---	2.22	---	---	
				10.	10.	Sep 1945	7	---	---	---	---	1.33	---	---	
				0.35	0.35	Sep 1946	8	---	---	---	---	0.51	---	---	
				0.35	0.35	Sep 1947	9	---	---	---	---	1.09	---	---	
70-63	W. Ravine Debris Basin...	West Ravine...	Altadena, Calif. ....	0.35	0.35	Sep 1948	10	---	---	---	---	2.34	---	---	
				0.64	0.64	Sep 1949	11	---	---	---	---	1.20	---	---	
				0.64	0.64	Sep 1950	12	---	---	---	---	1.03	---	---	
				0.25	0.25	Sep 1938	1	---	---	---	---	1.05	---	---	
				0.25	0.25	Sep 1939	2	---	---	---	---	47.85	---	---	
70-64	W. Ravine Debris Basin...	West Ravine...	Altadena, Calif. ....	0.25	0.25	Sep 1940	3	---	---	---	---	46.6	---	---	
				0.25	0.25	Sep 1941	4	---	---	---	---	55.6	---	---	
				0.25	0.25	Sep 1942	5	---	---	---	---	34.9	---	---	
				0.25	0.25	Sep 1943	6	---	---	---	---	22.6	---	---	
				0.25	0.25	Sep 1944	7	---	---	---	---	23.0	---	---	
70-65	W. Ravine Debris Basin...	West Ravine...	Altadena, Calif. ....	0.25	0.25	Sep 1945	8	---	---	---	---	21.9	---	---	
				0.25	0.25	Sep 1946	9	---	---	---	---	21.9	---	---	
				0.25	0.25	Sep 1947	10	---	---	---	---	20.8	---	---	
				0.25	0.25	Sep 1948	11	---	---	---	---	19.0	---	---	
				0.25	0.25	Sep 1949	12	---	---	---	---	17.6	---	---	
70-66	W. Ravine Debris Basin...	West Ravine...	Altadena, Calif. ....	0.25	0.25	Sep 1950	13	---	---	---	---	16.3	---	---	
				0.25	0.25	Sep 1943	14	---	---	---	---	15.2	---	---	
				0.25	0.25	Sep 1944	15	---	---	---	---	---	---	---	
				0.25	0.25	Sep 1945	16	---	---	---	---	---	---	---	
				0.25	0.25	Sep 1946	17	---	---	---	---	---	---	---	

3.16 JOAQUIN AND KERN RIVER BASINS AND ADJACENT COASTAL DRAINAGE

71-1	Upper Crystal Springs.	Laguna Cr.....	San Francisco, Calif.	13.3	12.0	Oct 1935	57.8	---	2,191	---	0.06	1.41	---
71-2	Atascadero Park Lake.	Atascadero Cr.....	Atascadero, Calif....	1.0	1.0	Nov 1947	29	---	150	---	0.48	627	---
71-3	hakins.....	N. Fk. Los Vibros Cr.	Hollister, Calif....	4.04	4.01	Nov 1940	28	---	136	---	0.15	196	---
71-4	Salinas.....	Salinas R.....	San Jose, Calif.....	113	112	Nov 1947	5	---	230	---	0.10	202	---
71-5	Copperopolis.....	Penney Cr.....	San Jose, Calif.....	2.06	2.01	Aug 1945	30	---	129	---	0.034	40.7	---
71-6	Crane Valley.....	N. Fk. San Joaquin R.	San Jose, Calif.....	54.5	52.7	Jun 1946	45	---	833	---	0.02	217	---
71-7	Oavis.....	Shaw Cr.....	Stockton, Calif.....	7.87	7.62	Sep 1945	28	---	181	---	0.161	344	---
71-8	Don Pedro.....	Tuolumne R.....	Modesto, Calif.....	1.001	96.5	Nov 1945	22.7	---	229	---	0.07	284	---
71-9	Exchequer.....	Merced R.....	Calif.....	1.027	1.022	Mar 1946	19.6	---	281	---	0.167	226	---
71-10	Gilmore.....	Ten Mile Cr.....	Bellevue, Calif.....	5.01	4.92	Jun 1946	37	---	116	---	0.132	144	---
71-11	La Grange.....	Tuolumne R.....	Calif.....	1.301	1.501	Oct 1905	10.1	---	58.3	---	0.05	40.5	---
71-12	Lyons.....	S. Fk. Stanislaus Cr.	Calif.....	40	35.7	Jun 1946	16	---	138	---	0.083	127	---
71-13	McCarthy.....	Trib of Johnny Cr....	Lodi, Calif.....	0.35	6.32	Sep 1945	7.7	---	275	---	0.101	154	---
71-14	Pardue.....	Rock Cr.....	Calif.....	387	383.5	Aug 1943	14	---	543	---	0.03	205	---
71-15	Salt Springs Valley...	Bear R.....	Calif.....	20.3	18.4	Jul 1945	63.0	---	637	---	0.201	219	---
71-16	Salt Springs Valley...	Bear R.....	Calif.....	28.5	28.2	Jun 1946	45.8	---	236	---	0.007	26	---

SACRAMENTO, FEE AND RUSSIAN RIVER BASINS

72-1	Ridgewood (Walker)...	Forsythe Cr.....	Ukiah, Calif.....	5.9	5.9	Mar 1940	19	---	53.1	---	0.52	305	---
72-2	Harris.....	James Cr.....	Willits, Calif.....	5.22	5.16	Apr 1949	25	---	139	---	0.22	210	---
72-3	Big Canyon.....	Big Canyon Cr.....	French Town, Calif...	5.50	5.48	Oct 1945	11	---	36.4	---	0.19	67.2	---
72-4	Blodgett.....	Trib of Cosumnes R...	Sacramento, Calif...	3.17	3.05	Oct 1945	5.6	---	82.7	---	0.217	217	---
72-5	Billards Bar.....	N. Yuba R.....	Campdownville, Calif.	480	479	Jan 1939	13.2	---	65.6	---	0.43	70	---
72-6	Cambie (Van Gelsion)...	Bear R.....	Auburn, Calif.....	130	129	Oct 1935	73.3	---	65.7	---	0.13	1,110	---
72-7	East Park.....	Little Stony Cr.....	Stony Ford, Calif....	101.5	98.9	Feb 1946	35.2	---	405	---	0.05	731	---
72-8	Faulke L. (false L.)..	N. Fk. Jenny Cr.....	Calif.....	0.71	0.68	Feb 1945	94	---	183	---	0.08	231	---
72-9	Verber.....	Trib of Birch Cr.....	Corning, Calif.....	0.31	0.28	Feb 1945	28.5	---	613	---	0.14	1,656	---
72-10	Napalia.....	Little Butte Cr.....	Chico, Calif.....	8.23	8.08	Mar 1946	29	---	452	---	0.07	326	---
72-11	Stony Gorge.....	Stony Cr.....	Elk Creek, Calif....	199.3	197.2	Mar 1946	17.3	---	245	---	0.196	231	---
72-12	Misselbeck.....	N. Fk. Cottonwood Cr.	Redding, Calif.....	12.0	11.6	Feb 1945	25.5	---	358	---	0.711	1,161	---

KLAMATH, ROGUE AND UMPQUA RIVER BASINS

LOWER COLUMBIA RIVER BASIN AND PACIFIC COAST BASINS IN NORTHERN OREGON

74-1	Condit (White Salmon).	White Salmon R.....	Underwood, Wash....	337	337	May 1936	23	---	3.21	---	0.11	0.004	---
74-2	Lake Harriet (Oak Grove).....	Trib of Clackamas R..	Portland, Ore.....	126	126	Aug 1948	24	---	2	---	0.07	0.0013	---
74-3	McKay.....	McKay Cr.....	Pendleton, Ore.....	186	184	Jul 1946	19.75	---	396	---	0.02	61	---
74-4	Cottage Grove.....	Coast Fk. Willamette R	Cottage Grove, Ore..	104	102	Dec 1947	5.1	---	317	---	0.075	0.244	---

COLUMBIA RIVER BASIN (GRAND COULEE TO UMATILLA) AND PACIFIC COAST DRAINAGE IN WASHINGTON

Yakima, Chelan and Okanogan River Basins

75-1	Oablo.....	Skagit R.....	Bellingham, Wash....	1,100	1,100	Jul 1936	6	---	81.1	---	0.07	0.054	---
------	------------	---------------	----------------------	-------	-------	----------	---	-----	------	-----	------	-------	-----

- 1/ Debris excavated to various times.
- 2/ Drainage area 0.35 sq. mi. thru 1947, 0.64 sq. mi. after 1947.
- 3/ Before construction of Don Pedro Reservoir in 1923.
- 4/ Excluding non-contributing areas above Salt Springs and Bear River Reservoirs.
- 5/ Excluding 3 sq. mi. above P. G. & E. canal.

\* Estimated or assumed.

# SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1950

DATA SHEET NUMBER	RESERVOIR	STREAM	NEAREST TOWN	DRAINAGE AREA IN SQUARE MILES		DATE OF SURVEY	LENGTH OF RECORD IN YEARS	AVERAGE ANNUAL RUNOFF IN ACRES IN FEET	INITIAL CAPACITY- WATERSHED RATIO IN AC FT PER SQ MI	SPECIFIC WEIGHT IN LBS (DRY) PER CU FT	AVERAGE ANNUAL STORAGE LOSS IN PERCENT	AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQUARE MILE		SEDIMENT CONCENTRATION IN PPM BY WT
				TOTAL	NET							AC FT	TONS	

COLUMBIA RIVER BASIN (INTERNATIONAL BOUNDARY TO GRAND COULEE) AND PACIFIC COAST DRAINAGE IN WASHINGTON  
Pendorette, Spokane, Walla Walla and Lower Snake River Basins

76

## COLUMBIA RIVER BASIN IN CANADA

77

### SHAKE RIVER BASIN (FROM KING HILL TO GRANDE RONDE RIVER)

78-1	Orchard.....	Indian Cr.....	Boise, Idaho.....	43	42.8	Jun 1947	55	---	110	--	0.026	0.03	---	---
78-2	Black Canyon.....	Payette R.....	Emmett, Idaho.....	2,750 *	2,540 *	Jun 1936	12	---	13.7	--	0.89	0.132	---	---
78-3	Pleasant Valley.....	Black's Cr.....	Boise, Idaho.....	15	16	Jun 1947	42	---	494	--	0.013	0.063	---	---
78-4	Arrowrock (Boise Proj)	Boise R.....	Boise, Idaho.....	2,211	2,170	Oct 1947	32.64	1,572,509	128.7	73	0.087	0.109	173.3	173.5

79

### SHAKE RIVER BASIN (AROUND KING HILL) AND SALMON RIVER BASIN

\* Estimated or assumed.



# RESERVOIR SEDIMENTATION DATA

Conchas Reservoir

47-1

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Dept of Army, C of E			2. RIVER Canadian			3. STATE New Mexico		
	4. SEC. Pablo TWP Montoya RANGE Grant-1			5. NEAREST TOWN Newkirk, N.Mex.			6. COUNTY San Miguel		
	7. STREAM BED ELEV. 4040			8. TOP OF DAM ELEV. 4240			9. SPILLWAY CREST ELEV. 4218		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-Feet	14. ACCUMULATED ACRE-Feet	15. DATE STORAGE BEGAN			
	a. FLOOD CONTROL	4218	13,715	201,834	601,112	1 Jan 1939			
	b. POWER								
	c. WATER SUPPLY								
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN			
	e. CONSERVATION	4201	10,073	296,412	399,278	Jan 1939			
	f. INACTIVE	4155	3,520	102,866	102,866				
17. LENGTH OF RESERVOIR Canadian Arm 23 2/ MILES AV. WIDTH OF RESERVOIR 4200 Contour, 0.75 MILES									
WATERSHED	18. TOTAL DRAINAGE AREA 7,350 SQ. MI.			22. MEAN ANNUAL PRECIPITATION (38 yrs) 16.8 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 6,950 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.54 3/ INCHES					
	20. LENGTH 100 MILES AV. WIDTH 73 MILES			24. MEAN ANNUAL RUNOFF (44 yrs) 213,400 AC.-FT.					
	21. MAX. ELEV. 13,000 MIN. ELEV. 4,040			25. CLIMATIC CLASSIFICATION Semi-arid					
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-Feet	33. C/W RATIO AC.-FT. PER SQ. MI.	
	1 Jan 1939			Contour	10 feet	13,715	601,112	82	
	May 1940	1.4		Range	14 ranges		599,712	82	
	June 1942	2.1	3.4	Range	24 ranges		585,112	80	
	Nov 1942	.4	3.8	Range	28 ranges		581,112	79	
	Oct 1944	1.9	5.7	Contour	10 feet	13,349	576,756	78	
	Feb 1949	4.3	10.1	Contour	10 feet	13,552	566,163	77	
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-Feet			36. WATER INFL. TO DATE AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
	May 1940	14.26			114,264		114,264		
	June 1942	22.40	652,279	963,370	1,369,786	436,485	1,484,050		
	Nov 1942	12.50			457,288	510,878	1,941,338		
	Oct 1944	14.32			235,603	381,919	2,176,941		
	Feb 1949	13.68	122,942	154,702	528,651	266,536	2,705,592		
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE ACRE-Feet					
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.			
May 1940	1,400			1,400	1,000	.144			
June 1942	14,600	6,952	1.000	16,000	4,710	.677			
Nov 1942	4,000			20,000	5,260	.757			
Oct 1944	4,360	2,290	.330	24,360	4,280	.615			
Feb 1949	10,600 (11,250)	2,460 (2,610)	.354 (.376)	34,950 (35,600)	3,460 (3,520)	.498 (.506)			
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM			
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE		
May 1940	75.7		255	.17	.23	14,863	14,863		
June 1942	75.7	1,648	1,116	.78	2.66	12,930	13,079		
Nov 1942	75.7		1,248	.88	3.33	10,612	12,498		
Oct 1944	75.7	544	1,014	.71	4.05	22,429	13,573		
Feb 1949	75.7	584 (620)	821 (834)	.58 (.59)	5.81 (5.92)	24,325 (25,816)	15,671 (15,962)		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	178-128	128-108	108-88	88-68	68-58	58-48	48-38	38-28	28-17	17-CRST	CRST-12	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
May 1940												
June 1942												
Nov 1942												
Oct 1944	16	4	7	10	6	10	15	16	16			
Feb 1949	13	4	5	9	5	7	11	14	14	16	2	

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR													
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION													
May 1940	( <del>11</del> 30)	( <del>23</del> 22)	( <del>3</del> 7)	( <del>26</del> 10)	( <del>16</del> 18)	( <del>2</del> 13)	South Canadian Arm Conchas Arm							
June 1942	( <del>6</del> 20)	( <del>3</del> 21)	( <del>4</del> 12)	( <del>4</del> 12)	( <del>22</del> 13)	( <del>14</del> 27)	( <del>18</del> 5)	( <del>2</del> 14)	South Canadian Arm Conchas Arm					
Nov 1942	( <del>6</del> 1)	( <del>2</del> 0)	( <del>5</del> 1)	( <del>8</del> 2)	( <del>16</del> 19)	( <del>16</del> 57)	( <del>29</del> 5)	( <del>16</del> 14)	( <del>2</del> 3)	South Canadian Arm Conchas Arm				
Oct 1944														
Feb 1949														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1939 (9 mo)	4147.00			1945	4197.20	4194.22	97,957
1940	4154.25	4147.05	46,835	1946	4201.13	4192.05	137,573
1941	4206.14	4153.10	993,933	1947	4202.46	4199.00	129,329
1942	4208.41	4197.75	1,147,300	1948	4201.46	4195.63	154,702
1943	4200.19	4197.86	172,956				
1944	4201.71	4194.46	158,836				
(The April 1941 flood filled the conservation pool, which has remained full most of the time since that date with overflows resulting from floods of September 1941, April and September 1942, and October 1947.)							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	Acres	Acre-feet		Acres	Acre-feet		Acres	Acre-feet
4230	16,396	746,091	4170	4,917	151,721	4120	1,038	19,094
4218	13,552	566,163	4160	3,774	108,479	4110	676	10,610
4201	9,593	370,185	4150	2,892	75,305	4090	250	1,847
4190	7,666	275,641	4140	2,153	50,150	4073.5	0	0
4180	6,123	206,909	4130	1,532	31,823			

47. Report: Interim Report on Sedimentation in Conchas Reservoir, South Canadian River, New Mexico, September 1943

47. REMARKS AND REFERENCES							
Average of all samples secured from reservoir area has the following gradation:							
MIT Classification		Clay	Silt	Silt	Silt	Sand	Sand
Percent		23	14	19	21	17	5
1/ This area has not been subdivided.							
2/ Conchas Arm, 13.8 miles. In each case, lengths are those along original channel, to intercept at elev. 4230.							
3/ This figure affected by water taken out above reservoir for irrigation.							
4/ Figures in parentheses pertain to deposits above and below spillway crest.							
48. AGENCY SUPPLYING DATA				49. DATE			
Dept. of the Army, Corps of Engineers, Albuquerque District.				11 October 1949			



RESERVOIR SEDIMENTATION  
DATA

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER				2. RIVER		3. STATE									
	4. SEC.		TWP.		RANGE		5. NEAREST TOWN									
	7. STREAM BED ELEV.				8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV.									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE-FEET									
	a. FLOOD CONTROL															
	b. POWER															
	c. WATER SUPPLY															
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR		MILES								
WATERSHED	18. TOTAL DRAINAGE AREA				SQ. MI.		22. MEAN ANNUAL PRECIPITATION		INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA				SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES							
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF	AC.-FT.						
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION											
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA ACRES		32. CAPACITY ACRE-FEET		33. C/W RATIO AC.-FT. PER SQ. MI.	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE-FEET		36. WATER INFL. TO DATE AC.-FT.									
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
	26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE-FEET		38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET											
			a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YR.		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YR.			
	26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM							
					a. PERIOD		b. TOTAL TO DATE		a. AV. ANNUAL		b. TO DATE		a. PERIOD		b. TO DATE	

26. DATE OF SURVEY	43. DEPTH DESIGNATION      RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

26. DATE OF SURVEY	44. REACH DESIGNATION      PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45.      RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

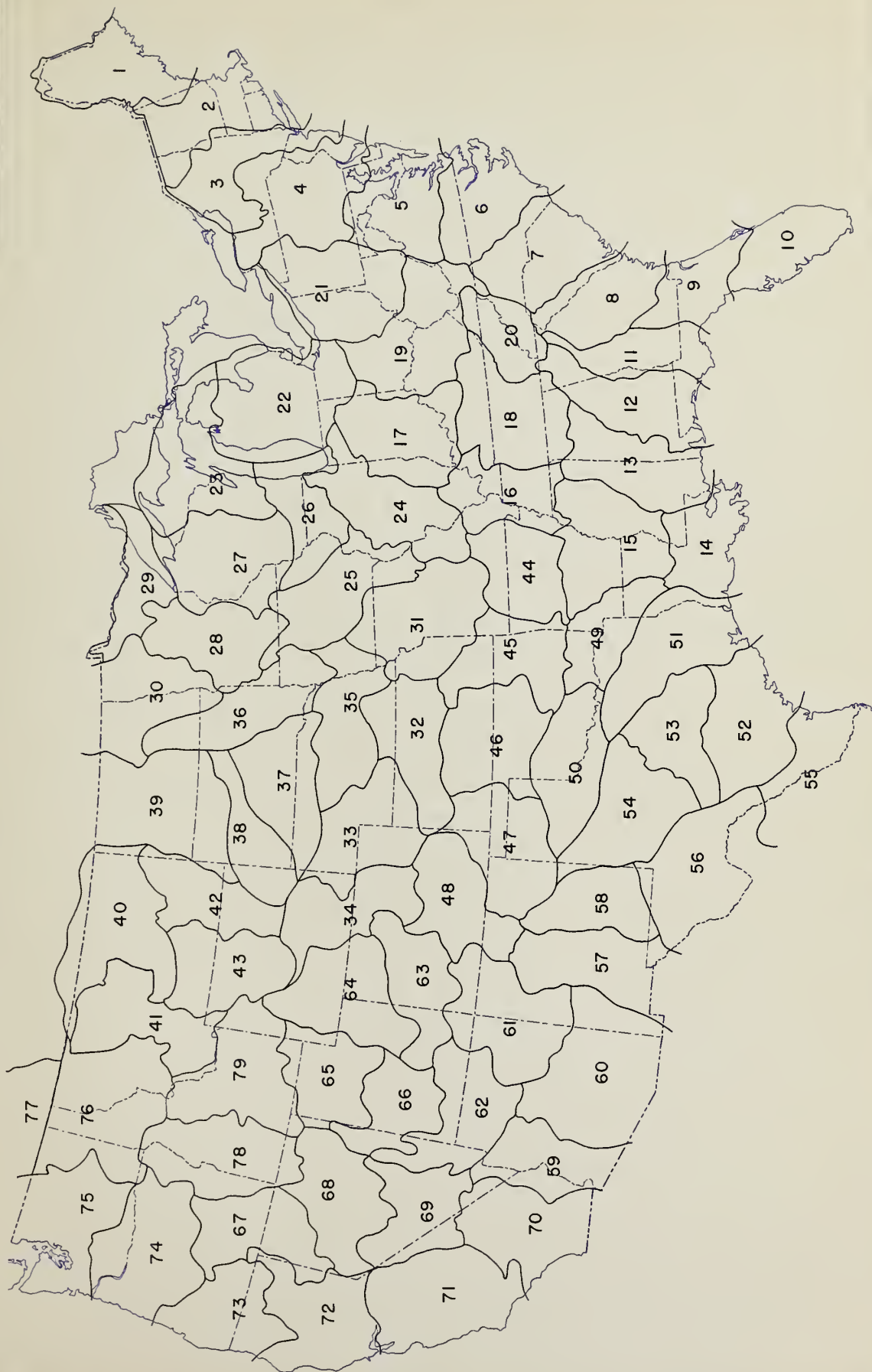
46.      ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA	49. DATE _____
---------------------------	----------------



# INDEX OF RIVER BASIN MAPS



*Index number corresponds to first of two numbers  
in summary table, which appear in column headed  
"Data Sheet No."*





